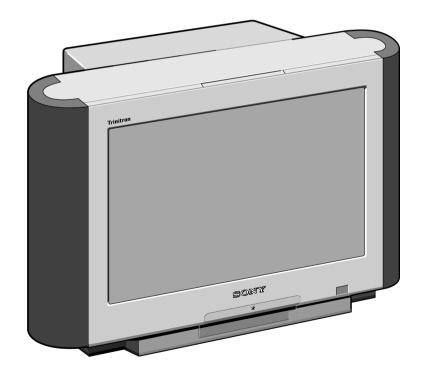
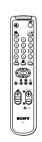


SERVICE MANUAL

FE-1A CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
	_			KV-29FC20E KV-29FC20E		AEP Spanish	SCC-Q31C-A SCC-Q34C-A









ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H	GERMAN Stereo	ITALIA VHF : A-H2 (C) UHF : 21-69 PAL B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	L VHF: F02-F10 UHF: F21-F60 CABLE: B-Q B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69 I UHF: B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H	GERMAN Stereo	PAL B/G/H VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H	GERMAN/NICAM Stereo	PAL B/G VHF: E2-E12 UHF: E21-E69 CABLE TV (1): S1-S41 CABLE TV (2): S01-S05, M1-M10, U1-U10 ITALIA VHF: A-H2 (C) UHF: 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	29FC20A	29FC20B	29FC20D	29FC20E
Power Consumption	120W	120W	120W	120W

[PICTURE TUBE] FD Trinitron

Approx. 72cm (29 inches) (Approx. 68cm picture measured

diagonally)

110 degree deflection

Input/Output Terminals

[REAR]

⇒1/→ 21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.

- Inputs for RGB.

- Outputs of TV Video and Audio signals.

 \implies 2/ \implies 21-pin Euro connector.

- inputs for Audio and Video signals.

inputs for S Video.

outputs for Audio and Video signals (selectable).

→ Phono Jack

Outputs for Audio Signals

[FRONT]

- S Video input - 4 pin din

Sound output 2 x 14W (Music Power) Subwoofer 30W (Music Power)

Power requirements 220 - 240V

Dimensions Approx 800x581x496mm (w/h/d)

Weight Approx 48.5kg

Supplied accessories RM-887 Remote Commander (1)

IEC designated R6 battery (2)

Other features NICAM*, FASTEXT, TOPTEXT

*(KV-29FC20B/29FC20E only)

[RM-887]

Power requirements 3V dc

2 batteries IEC designation

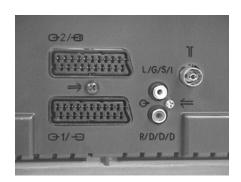
R6 (size AA)

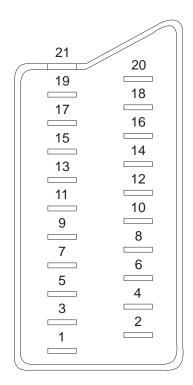
Dimensions Approx 44x209x23mm (w/h/d)
Weight Approx 89g (Not including battery)

Design and specifications are subject to change without notice.

Model Name	KV-29FC20A	KV-29FC20B	KV-29FC20D	KV-29FC20E
Item	KV-29FG2UA	KV-29FC20B	KV-29FG20D	RV-29FG20E
Pal Comb	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF
RGB Priority	OFF	ON	ON	ON
Woofer Box	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF
Norm D/K	OFF	ON	OFF	OFF
Norm AUS	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON
Language Preset	Italian	French	German	Spanish

21 pin connector (\hookrightarrow 1/ \rightarrow $, <math>\hookrightarrow$ 2 / \rightarrow)







Di- N				0:	Circust Issuel
Pin No	1	2	4	Signal	Signal level
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	0	0	0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V): Part mode Low state (0-2V): TV mode Input impedence: More than 10K ohms Input capacitance: Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	0	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75 ohm, positive Sync.

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP

WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE

\$\text{MSUR LES SCHÈMAS DE PRINCIPE, LES VUES}\$

EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

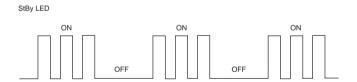
FE-1A SELF DIAGNOSTIC SOFTWARE

The identification of errors within the FE-1A chassis is triggered in one of two ways:-1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See Table 1., non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

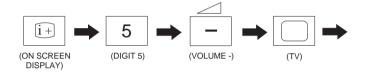
ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Protection circuit trip < ANY TIME >	02
Reserved	03
No vertical sync	04
AKB	05
IIC bus clock and/or data lines low at Power ON	06
NVM no IIC bus acknowledge at Power ON	07
Jungle controller no IIC acknowledge at Power ON	08
Tuner no acknowledge at Power ON	09
Sound processor no acknowledge at Power ON	10

Flash Timing Example: e.g. error number 3



How to enter into Table 2

- 1. Turn on the main power switch of the TV set and enter into the 'Standby Mode'.
- Press the following sequence of buttons on the Remote Commander.



The following table will be displayed indicating the error count.

Table 2

Error	Times
2	-
3	-
4	-
5	-
6	-
7	-
8	-
9	-
10	-

Note: To clear the error count data press '80' on the Remote commander.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started - Overview

Overview of Remote Control Buttons

Muting the Sound To Temporarily Switch Off TV Press to mute TV sound. Press to temporarily switch off TV (the (I/Q) Press again to restore the sound standby indicator & on TV lights up). Press again to switch on TV from standby mode. Displaying On Screen Information To save energy we recommend switching off Press to display all on-screen indications. completely when TV is not in use. Press again to cancel. 2 3

> (5) 6

0

♦(OK)

SONY

TV

• •

9 (8)

(3)

MENU

□ ◆

Q

(7)

Selecting channels Press to select channels.

For double-digit programme numbers, e.g. 23, press -/-- first, then the buttons 2 and 3. If you enter an incorrect first digit, this should be corrected by entering another digit (0-9) and then selecting -/-- button again to enter the programme number of your choice.

Selecting TV mode Press to switch off Teletext or video input.

Selecting Teletext Press to switch on Teletext.

Selecting Sound mode Press to change the sound mode.

Selecting Picture mode Press to change the picture mode.

Adjusting TV Volume Press to adjust the volume of the TV.

After 15-30 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

Selecting Input source

Press repeatedly until the desired input symbol of the source appears on the TV

Back to the channel last watched Press to watch the last channel selected (watched for at least 5 seconds).

Displaying the menu system

Press to display the menu on the TV screen. Press again to remove the menu display from the TV screen.

Menu selection

- ◆ Scroll Up
- ◆ Scroll Down
- ♦ Previous menu or selection
- Next menu or selection OK Confirms your selection

Selecting Screen format

Press to view programmes in 16:9 mode. Press again to return to 4:3 mode.

This button only works in Teletext mode. Function associated to this button does not work with this TV.

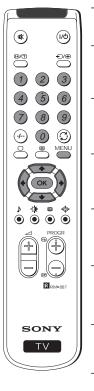
Selecting channels

Press to select the next or previous channel.

Advanced Operation - Advanced Presetting

Manually Tuning the TV

Use this function to preset channels or a video input source one by one to the programme order of your choice.



1 Press the MENU button on the remote control to display the menu on the TV screen.

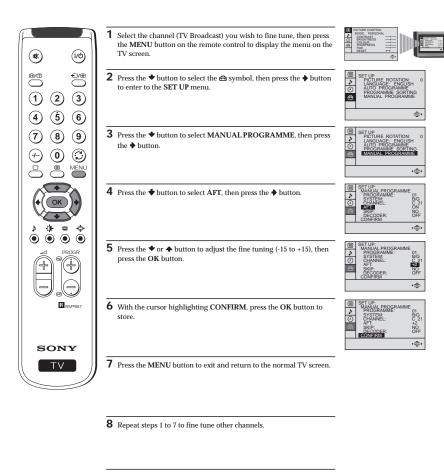
Your TV is now ready for use.

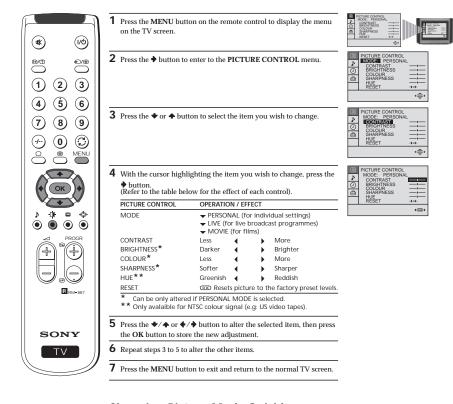
2 Press the ◆ button to select the ⊕ symbol, then press the ◆ button to enter to the SET UP menu. 3 Press the ◆ button to select MANUAL PROGRAMME, then press the button. 4 With the cursor highlighting PROGRAMME, press the → button and then, press the ◆ or ♠ button to select on which programme number you want to preset a channel. Press the 4 button. (ŵ) 5 Press the ♦ button to select CHANNEL, then press the ♦ button. Press ♥ or ♠ button to select the channel tuning, "C" for terrestrial channels or "S" for cable channels. Press the ♦ button. (∰) **6** Press the number buttons to enter the channel number of the TV Broadcast or press the ◆ or ◆ button to search for the next available channel. If you do not wish to store this channel, press the ◆ or ◆ button € to continue searching for the desired channel. ${\bf 7}$ If this is the desired channel you wish to store, press the ${\bf O}{\bf K}$ button and then, with the cursor highlighting CONFIRM, press the OK button again. **(⊕)** 8 Repeat steps 4 to 7 if you wish to store more channels. **9** Press the MENU button to exit and return to the normal TV

Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

Adjusting the Picture

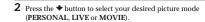
Although the picture is adjusted at the factory, you can modify it to suit your own taste.





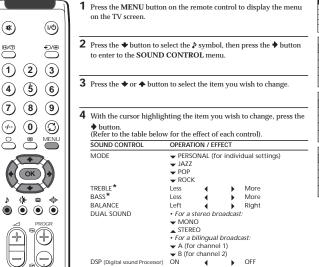
Changing Picture Mode Quickly

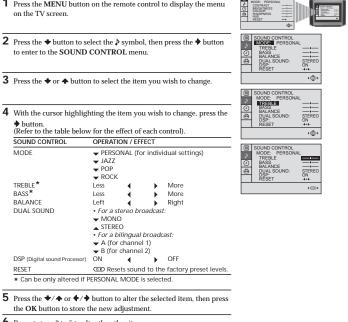






Your TV is now ready for use.





Changing Sound Mode Quickly

* Can be only altered if PERSONAL MODE is selected.

the OK button to store the new adjustment.

6 Repeat steps 3 to 5 to alter the other items.

1 Press the button on the remote control to access directly to the

7 Press the MENU button to exit and return to the normal TV screen.



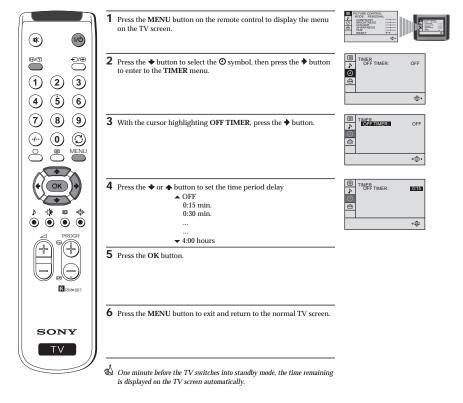
2 Press the ◆ button to select your desired sound mode (PERSONAL, JAZZ, POP or ROCK).

SOUND MODE: POP

Advanced Operation - Advanced TV Operation

Using the Sleep Timer

You can select a time period for the TV to switch itself automatically into the standby mode.



Notes: • When watching the TV, press the 🕦 button to display the time remaining.

· To return to normal operation from standby mode, press the // button.

RM-887

SONY

TV

Viewing Teletext

Teletext is an information service transmitted by most TV stations.

Make sure to use a TV channel with a strong signal, otherwise teletext errors may occur.

TV

Selecting Teletext

- 1 Select the TV channel which carries the teletext service you wish to view.
- **2** Press the button on the remote control to switch on the teletext.



- 3 Input three digits for the page number, using the numbered buttons on the remote control. (if you have made a mistake, type in any three digits and then, re-enter the correct page number).
- 4 Press the O button to switch off teletext.

Using other Teletext functions

то	PRESS THE BUTTON
Access the next or preceding page	for next page or for the preceding page
Superimpose teletext on to the TV	Press again to cancel teletext mode.
Freeze a teletext page	Press again to cancel the freeze.
Reveal concealed information (e.g. answer to a quiz)	? Press ? again to cancel.

Using Fastext

Fastext lets you access pages with one button stroke.

When Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the colour button (red, green, yellow or blue) on the remote control to access the corresponding page.

Optional Connections

Using Optional Equipment

10 You can connect optional audio or video equipment to your TV, such as a VCR, a camcorder or a video game as shown below.

Select and View the Input Signal

- 1 Connect your equipment to the designated TV socket
- 2 Press the
 ⊕ button repeatedly on your remote control until the correct input symbol appears on the TV screen.

Symbol	Input signals
- ⊙1	Audio/vid

Audio/video input signal through the Euro AV connector

• RGB input signal through the Euro AV connector

• Audio/video input signal through the Euro AV connector

-- So 2 • S video input signal through the Euro AV connector ■

Video input signal through the phono socket and Audio input signal through

• S video input signal through the socket **B** and Audio input signal through **D**.

3 Switch on the connected equipment.

4 To return to normal TV picture, press the □ button on the remote control.

Note: To avoid picture distortion, do not connect equipment to the **B** and **c** connectors at the same time.

Additional Information

Connecting a VCR

Plug in VCR to the socket on the rear of the TV set.
We recommend you tune in the VCR signal to TV programme number '0' using the section "Manually Tuning the TV" of this instruction manual.

Connecting Headphones

Plug in your headphones to the socket A on the front of the TV set.

Connecting Decoders

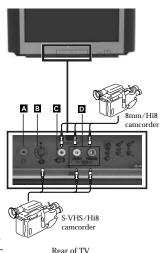
Plug in decoders to the socket **G** on the rear of the TV.

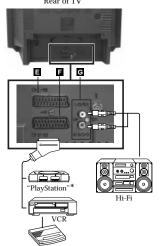
Connecting to External Audio Equipment

Plug in your Hi-Fi equipment to the $\fill \Box$ sockets on the rear of the TV if you wish to amplify the audio output from the TV.

- $\mbox{\ensuremath{*}}$ "PlayStation" is a product of Sony Computer Entertainment, Inc.
- * "PlayStation" is a trademark of Sony Computer Entertainment, Inc.

Front of TV





20 | Teletext

Problem	Solution
No picture (screen is dark), no sound	 Plug the TV in. Press the ♠ button on the front of TV. If the ♠ indicator is on, press I/♠ button or a programme number button on the remote control. Check the aerial connection. Check that the selected video source is on. Turn the TV off for 3 or 4 seconds and then turn it on again using the ♠ button on the front of the TV.
Poor or no picture (screen is dark), but good sound	Using the MENU system, select the Picture Adjustment display. Adjust the brightness, picture and colour balance levels. From the Picture Adjustment display select RESET to return to the factory settings.
Poor picture quality when watching a RGB video source.	 Press the ⊕ button repeatedly on the remote control until the RGB symbol — is displayed on the screen.
Good picture, no sound	Press the +/- button on the remote control. If is displayed on the screen, press the is button on the remote control.
No colour on colour programmes	Using the MENU system, select the Picture Adjustment display. Adjust the colour balance. From the Picture Adjustment display select RESET to return to the factory settings.
Distorted picture when changing programmes or selecting teletext	Turn off any equipment connected to the 21 pin Euro connector on the rear of the TV.
Noisy picture when viewing TV channel	Adjust Fine Tuning to obtain better picture reception.
Remote control does not function	Replace the batteries.
The standby indicator () on the TV flashes.	Contact to your nearest Sony service centre.

· If you continue to have these problems, have your TV serviced by qualified personnel.

Additional Information

Specifications

TV system

B/G/H

Colour system

PAL, SECAM

NTSC 3.58, 4.43 (only Video In)

Channel coverage

VHF: E2-E12 UHF: E21-E69 CATV: S1-S20 HYPER: S21-S41

Picture tube

Flat Display Trinitron

Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally), 104° deflection

Rear Terminals

☼1/- 21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output

> 21-pin Euro connector (CENELEC standard) including audio/video input, S-video input, monitor audio/video

output

G-Audio outputs - phono jacks

Front Terminals

€ 3 video input - phono jack

Sound output

2x7 W + 1x15 W (RMS)

Power consumption

120 W

Standby Power consumption

Dimensions (w x h x d)

Approx. 800 x 581 x 496 mm

Weight

Approx. 48.5 kg

Accessories supplied

1 Remote Control (RM-887) 2 Batteries (IEC designated)

Other features

TELETEXT, Fastext, TOPtext

Sleep Timer Smartlink

Design and specifications are subject to change without notice.

Ecological Paper - Totally Chlorine Free

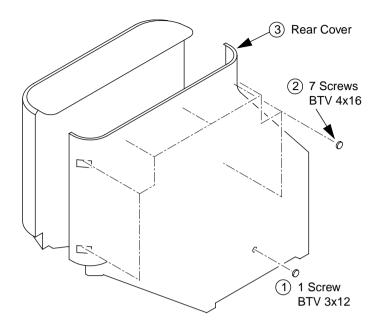


SECTION 2 DISASSEMBLY

2-1. SPEAKER GRILLE REMOVAL

Remove the speaker grille by pressing the buttons marked \leftarrow . While pressing the top button press the remaining five buttons in turn to release the grille.

2-2. REAR COVER REMOVAL

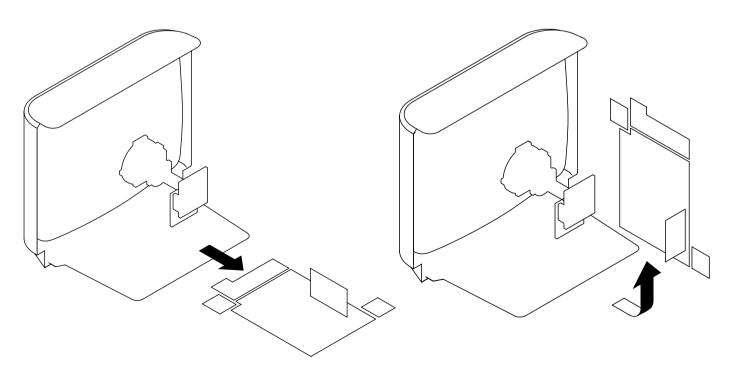


CAUTION:

Take care not to damage the C Board when removing or refitting the rear cover.

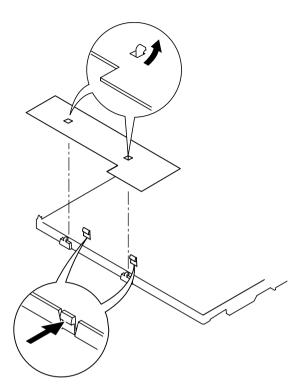
2-3. CHASSIS ASSY REMOVAL

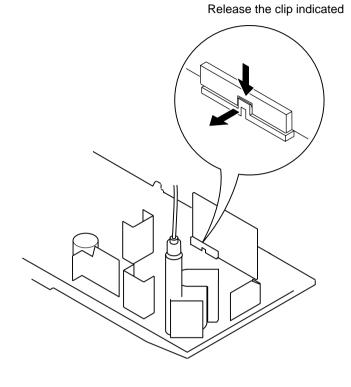
2-4. SERVICE POSITION



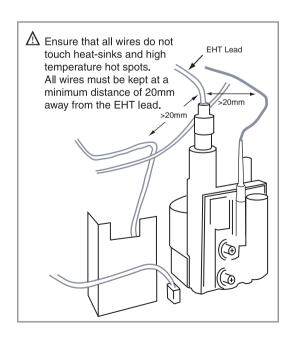
2-5. H BOARD REMOVAL

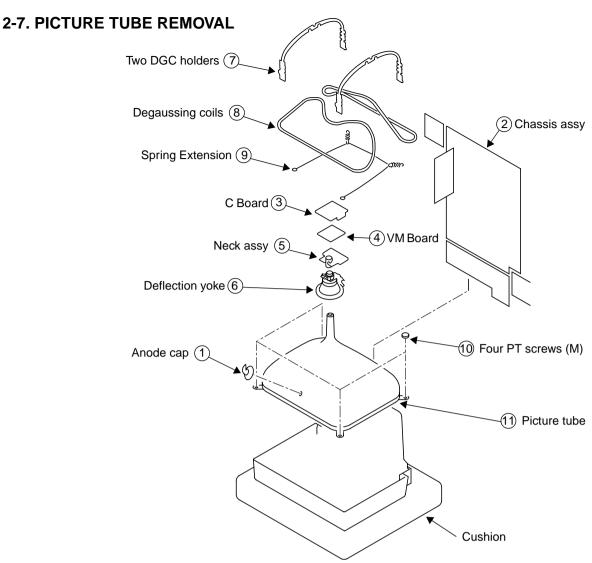
2-6. S1 BOARD REMOVAL





To release, push the claws in the direction of the arrow as indicated.

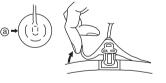




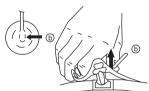
REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

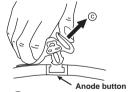
* REMOVING PROCEDURES.



1 Turn up one side of the rubber cap in the direction indicated by the arrow (a)



(2) Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)



(3) When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ©

• HOW TO HANDLE THE ANODE-CAP

- 1) To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- (3) A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.





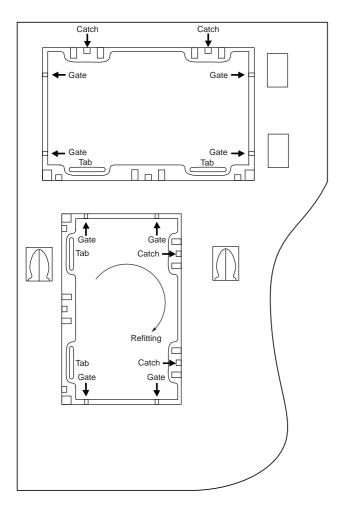
REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the A Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note :There are 2 plates fitted to the main bracket and secured by 4 gates. Only remove the necessary plate to gain access to the printed wiring board.



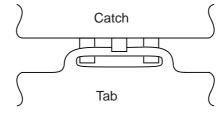


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from the cut position to allow the tabs to be fitted in the catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast

50% **Brightness**

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White Balance

Test equipment required Note:

- Color bar/pattern generator.
- Degausser.
- 3. Oscilloscope.
- 4. Digital multimeter.
- DC Power supply.

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- 2. Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- 1. Input an all white signal from the pattern generator. Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- Move the deflection yoke forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 - 3-3].
- Move the deflection yoke forward and adjust so that the entire 4. screen becomes Red. [See Fig.3-1]
- 5. Switch the raster signal to Blue, then to Green and verify the
- When the position of the deflection yoke has been determined, 6. fasten the deflection yoke with the screws.
- 7. If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

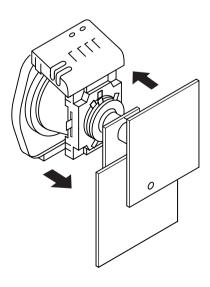
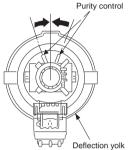


Fig. 3-1

Fig. 3-2



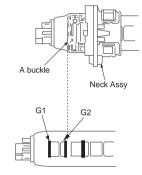
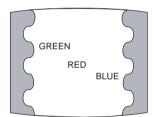


Fig. 3-3



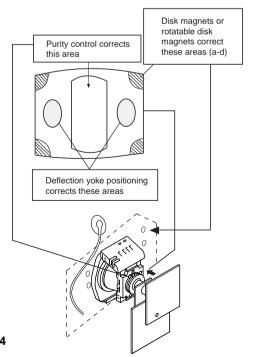


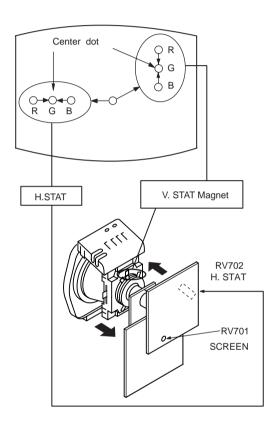
Fig. 3-4

3-2. CONVERGENCE

Preparation:

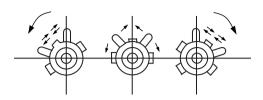
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

(1) Horizontal and vertical static convergence

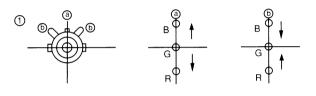


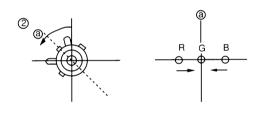
- [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below. [In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

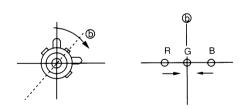
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

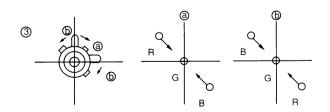


If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.

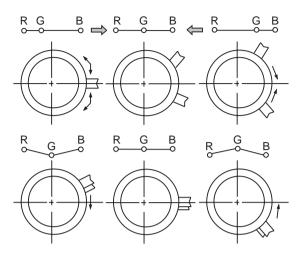








• Operation of the BMC (Hexapole) magnet.



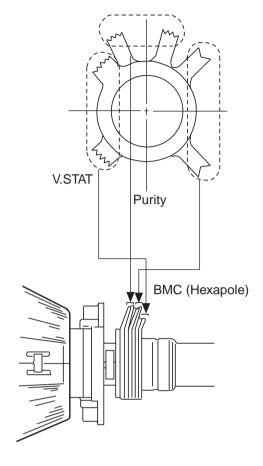
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment whilst tracking.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment.

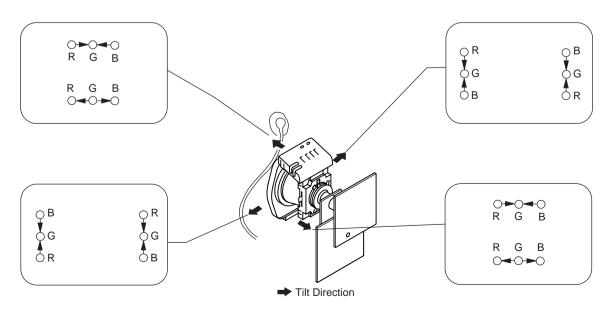
Preparation:

- Before starting this adjustment, adjust the horizontal and vertical static convergence.
- 1. Remove the deflection yoke spacer.



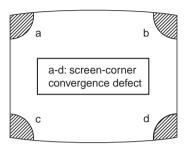
- Tilt the deflection yoke as indicated in the figure below and optimize the convergence.
- 3. Re-install the deflection yoke spacer.

Note: This adjustment will affect the geometry of the display, therefore adjust to obtain the optimum setting.

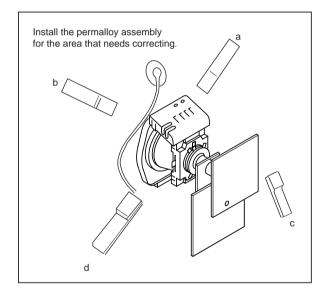


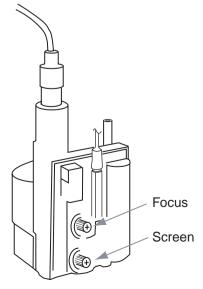
(3) Screen corner convergence.

• If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.









3-3. FOCUS

- 1. Receive a television broadcast signal.
- 2. Normalise the picture setting.
- Adjust the focus control on the flyback transformer for the best focus at the centre of the screen.
 Bring only the centre area of the screen into focus, the magenta ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.

3-4. WHITE BALANCE

G2 Screen Adjustment

- 1. Switch the TV set into AV mode [apply a cross-hatch signal].
- 2. Enter into the 'Service mode' and select 'Picture Control'.
- 3. Enter 'Picture Control' and select 'Personal' press OK.
- 4. Return to 'Picture Control' menu and select 'Reset'.
- 5. Measure the voltages on the 3 cathodes of the CRT, Kr,Kg and Kb using an oscilloscope with a 100:1 probe.
- 6. Connect the oscilloscope to the CRT cathode which recorded the highest voltage and adjust [RV702 SCREEN] located on the C Board to obtain a reading of 175V.

White Balance Adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Enter into the Service Mode.
- 3. Enter into the 'Picture Adjustment' service menu.
- 4. Select 'Sub contrast' and adjust to 7.
- 5. Select the 'Green drive' and adjust so that the white balance becomes optimum.
- Select the 'Blue drive' and adjust so that the white balance becomes optimum.
- 7. Press the 'TV' button on the remote commander to return to TV operation.

PICTURE ADJUST	PICTURE ADJUSTMENT		
AFC mode	1		
REF position	2		
SCP BGR	1		
SCP BGF	1		
Trap fo	0		
Sub contrast	Adj		
Sub colour	Adj		
Sub brightness	Adj		
Sub hue	Adj		
Green drive	Adj		
Blue drive	Adj		
Green cutoff	Adj		
Blue cutoff	Adj		
Gamma	0		
Pre / overshoot	0		
Y delay	3		

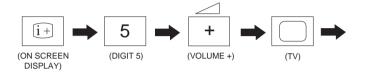
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-887.

HOW TO ENTER INTO SERVICE MODE

- Turn on the main power switch and enter into the stand-by mode.
- Press the following sequence of buttons on the Remote Commander.



- 'TT--' will appear in the upper right corner of the screen.
 - Other status information will also be displayed.
- 3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

TEST MENU

> Picture
Geometry
Sound
TV Status
AGC Adjust
Technical

- 4. Move to the corresponding adjustment item using the 'Green' [up] or 'Blue' [down] buttons on the Remote Commander.
- 5. Press the 'Yellow' button to enter into the required menu item.
- 6. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note: The data shown in the 'TV STATUS' table is dependant on destination and country.

PICTURE		
R - Drive	Adj	
G - Drive	Adj	
B - Drive	Adj	
R - cut - off	Adj	
G - cut - off	Adj	
B - cut - off	Adj	
ID - start	02	
ID - stop	01	
ID - level	01	
Bell-f0	Adj	
Sub Colour	Adj	
Sub Brightness	Adj	

GEOMETRY	
V centre	Adj
V size	Adj
V Lin	Adj
S Corr	Adj
H Cent	Adj
H Size	Adj
Pin Amp	Adj
Upper Pin	Adj
Lower Pin	Adj
Upper V lin	Adj
Lower V lin	Adj
Pin Phase	Adj
V Bow	Adj
V Angle	Adj
Upper V Lin	Adj
Lower V Lin	Adj
Left HBLK	07
Right HBLK	07
CD Mode (AV)	01
EHT-comp	12

SOUND	
Nicam Error Lower	20
Nicam Error Upper	80
Nicam Error Rate	xx [Status only]
AGC Gain Level	xx [Status only]

TV STATUS	
Destination	A/L/E/U/D/B/K/R
Text Language	East/West

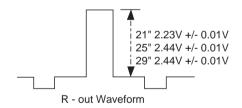
TECHNICAL	
GD - Secam	31
BD - Secam	31
RC - Secam	15
GC - Secam	15
BC - Secam	14
GD - Sports	32
BD - Sports	34
RC - Sports	14
GC - Sports	15
BC - Sports	16
Y - Delay (AV)	07

SUB BRIGHTNESS ADJUSTMENT

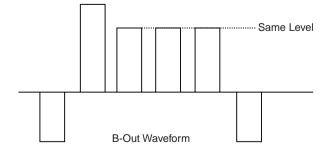
- 1. Input a Phillips colour pattern.
- 2. Press 'TEST' 'TEST' 13 on the Remote Commander.
- 3. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

SUB CONTRAST ADJUSTMENT

- Input a video signal that contains a small 100% white area on a black background
- 2. Set the picture control to maximum. ['TT01']
- 3. Connect an oscilloscope to Pin 1 of CN504 [A Board].



- 4. Enter into the 'Picture' service menu.
- 5. Adjust the 'R Drive' data to obtain the following waveform.



SUB COLOUR ADJUSTMENT

- 1. Receive a PAL colour bar signal.
- 2. Connect an oscilloscope to Pin 3 of CN504 [A Board].
- 3. Enter into the 'Picture' service menu.
- 4. Adjust the 'Sub Colour' data so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.

Note: Ensure that no signal is applied to the Antenna socket while carrying out the following IF adjustments.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

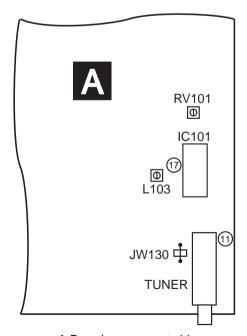
- Input a 38.9Mhz carrier signal at 100dBuV to Pin 11 [IF output] of the tuner [TU101].
- 2. Measure the voltage at Pin 17 of [IC101].
- 3. Adjust L103 [A Board] to obtain a voltage of 1.4V +/- 0.3V.

SYSTEM L BAND 1 I.F ADJUSTMENT

- Input a 33.9MHz carrier signal at 100dBuV to Pin 11 [IF output] of the tuner [TU101].
- 2. Select 'system L' + C00 [channel 00].
- 3. Measure the voltage at Pin 17 [IC101].
- 4. Adjust RV101 [A Board] to obtain a voltage of 1.4V +/- 0.3V.

TUNER AGC ADJUSTMENT

- Receive a signal of 62dBuV / 75 ohm terminated, via the tuner antenna socket.
- 2. Connect a voltmeter to JW130 [A Board].
- 3. Enter into the 'Test Menu'.
- 4. Select the 'AGC Adjust' menu item.
- Adjust the data using the Yellow and Green buttons on the Remote Commander to obtain a voltage of 3.5V +/- 0.3V.

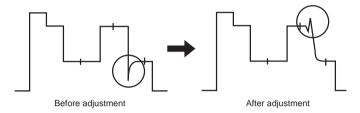


A Board component side

BELL FILTER ADJUSTMENT (Secam models only)

Note : Ensure that the TV set has been powered up for at least 1 minute to allow for drift before carrying out the following adjustment.

- 1. Input a video SECAM Colour Bar signal via AV1.
- Connect an oscilloscope to pin 1 of CN504 [R-OUT] on the A board.
- 3. Enter into the 'Picture' menu and select 'Bell-f0'.
- 4. Decrease the register of 'Bell-f0' until the following waveform change between RED and BLUE is obtained.

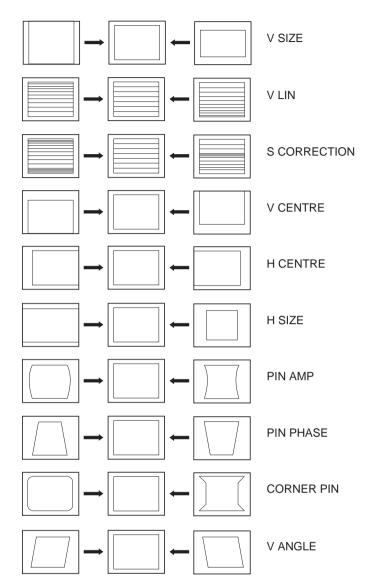


 When the correct waveform has been obtained add an additional 7 steps to the register.

DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the 'Geometry' service menu.
- 2. Select and adjust each item in order to obtain the optimum image.

GEOM	ETRY	
V centr	e	Adj
V size		Adj
V Lin		Adj
S Corr		Adj
H Cent		Adj
H Size		Adj
Pin Am	ıp	Adj
Upper	Pin	Adj
Lower	Pin	Adj
Upper '	V lin	Adj
Lower	V lin	Adj
Pin Ph	ase	Adj
V Bow		Adj
V Angle	е	Adj
Upper	V Lin	Adj
Lower	V Lin	Adj
Left HE	BLK	07
Right F	IBLK	07
CD Mo	de (AV)	01
EHT-co	omp	12

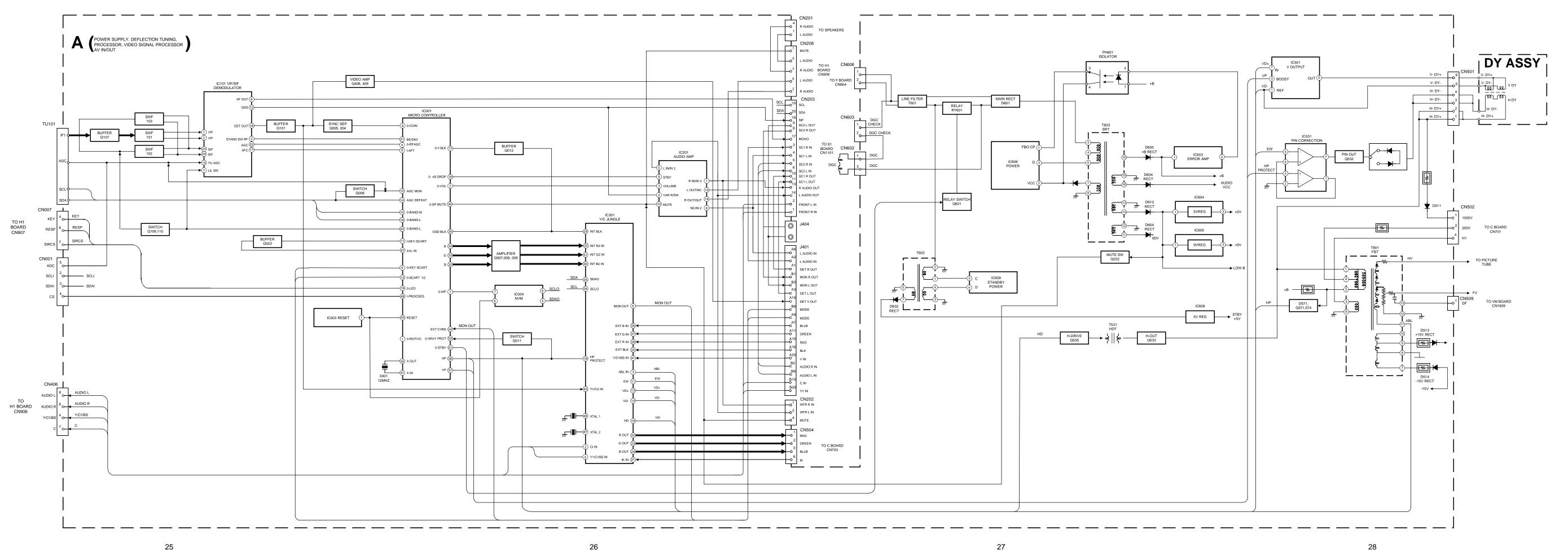


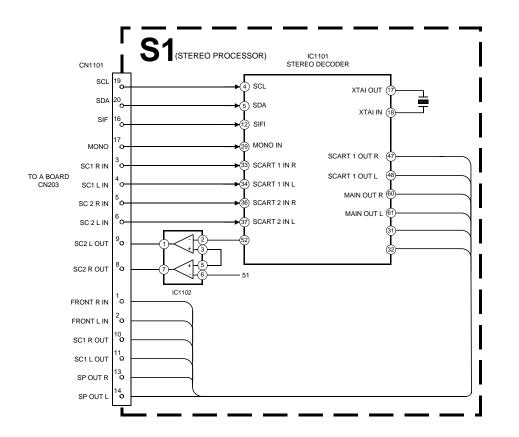
4-2. TEST MODE 2:

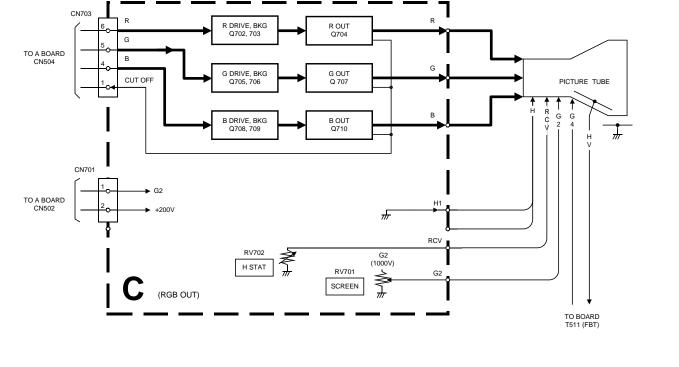
Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode, or press the \Box TV button on the remote commander.

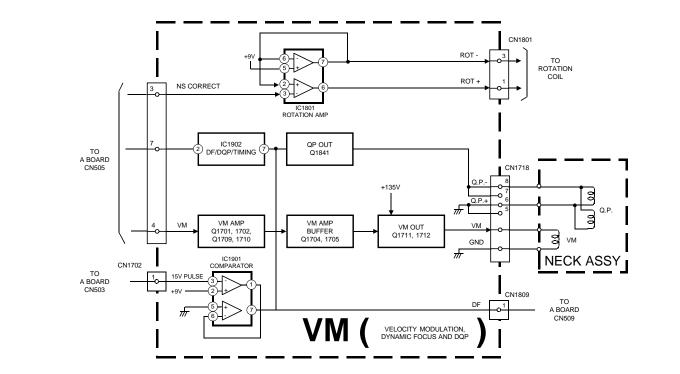
00	Cancel Test mode
01	Picture maximum
02	Picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing mode On/Off
08	Set shipping conditions
09	Display TV Status
10	No function
11	Sub Picture Adjustment
12	Sub Colour Adjustment
13	Sub Brightness Adjustment
14	Text H position Adjustment
15	Rotation test
16	Picture level 50%
17	Audio mute ON
18	Disable Blanking
19	No function
20	No function
21	Destination A
22	Destination L
23	Destination E
24	Destination U
25	Destination D
26	Destination B
27	Destination K
28	Destination R
29	No function
30	No function
31	Auto shutoff Disable/Enable
32	RGB priority Disable/Enable
33	Rotation On/OFF
34	Text language East/West
35	Wide CRT/4:3 CRT
36	VM ON/OFF test
37	No function
38	No function
39	No function
40	No function
41	Re-initialize the NVM [Only when Prog=59]
	l

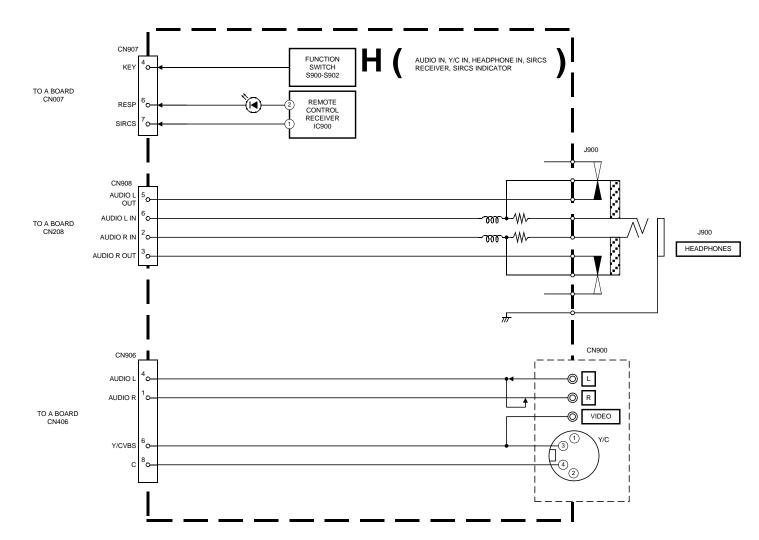
42	Re-initialise geometry settings [Only when Prog=59]
43	No function
44	No function
45	No function
46	No function
47	No function
48	Set NVM as NON Virgin [Only when Prog=59]
49	Set NVM as Virgin [Only when Prog=59]
50	No function
51	No function
52	No function
53	No function
54	No function
55	No function
56	No function
57	No function
58	No function
59	No function
60	No function
61	Auto AGC Adjust
62	Alternative Dest B Autotuning
63	Enable/Disable Y/C input
64	Signal Quality Check for Auto Tune
65	Signal Quality NOT Checked for Auto Tune
66	No function
67	Manual AGC Adjust
68 -100	No function

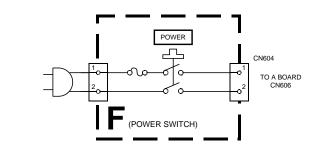




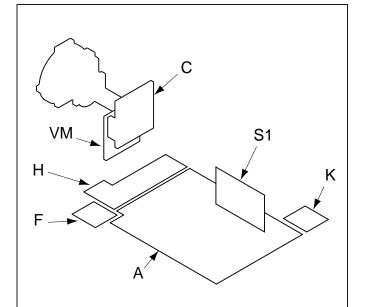








5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in µF unless otherwise noted.
- pF : μμF 50WV or less are not indicated except for
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms. k = 1000 ohms, M = 1000,000 ohms

: nonflammable resistor.

• _____ : fusible resistor.

• \triangle : internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have
- characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production

: B + bus.

• **.** : B - bus.

: RF signal path.

: earth - ground.

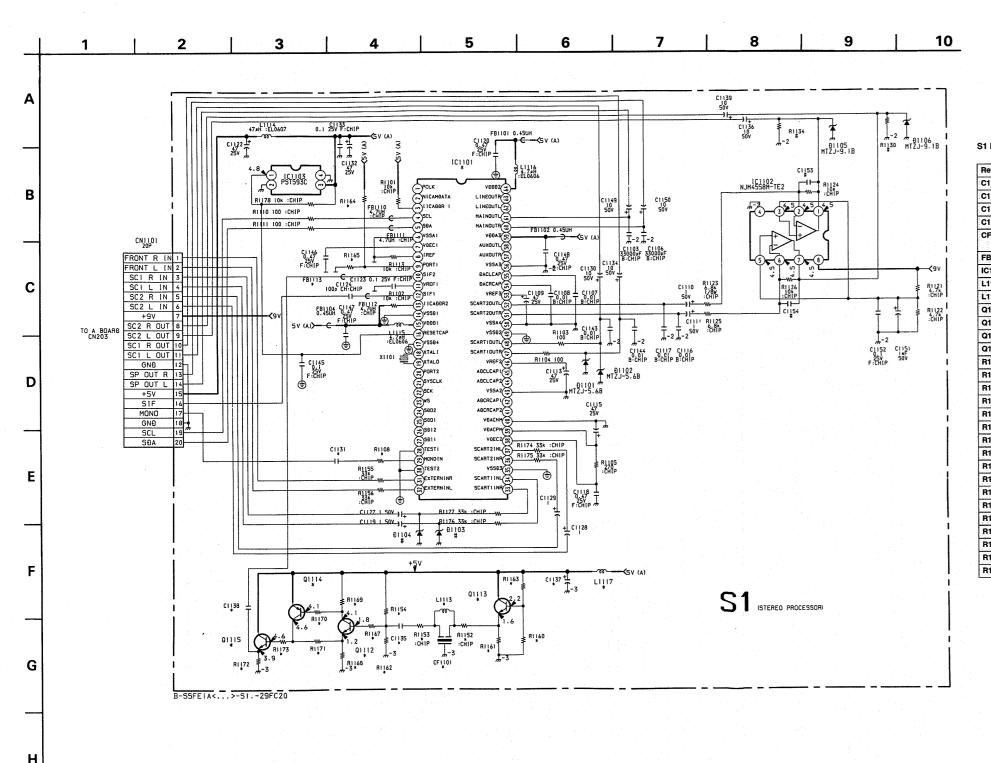
: earth - chassis.

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

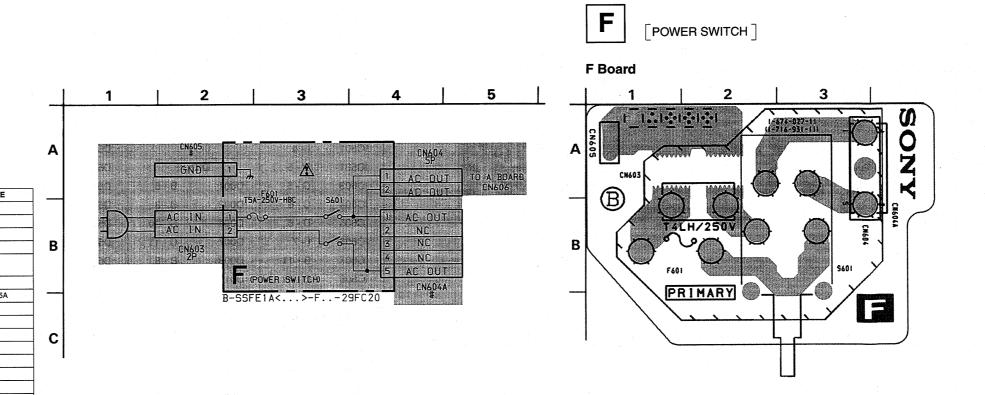
Reference Information

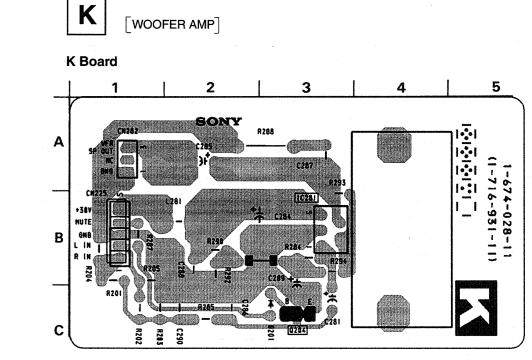
Note: The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque ▲ sont d?une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

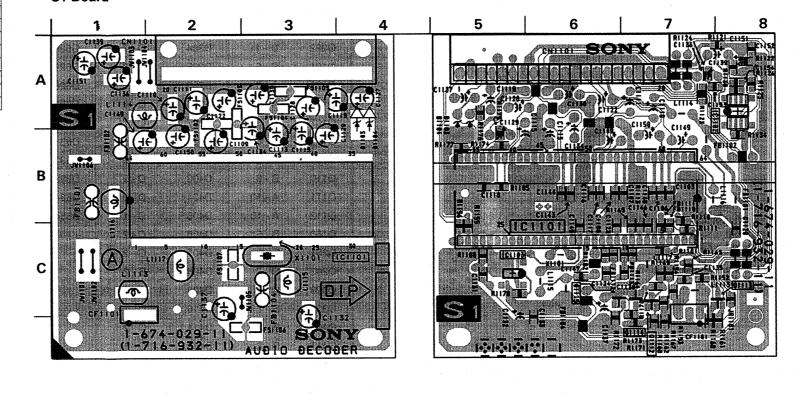


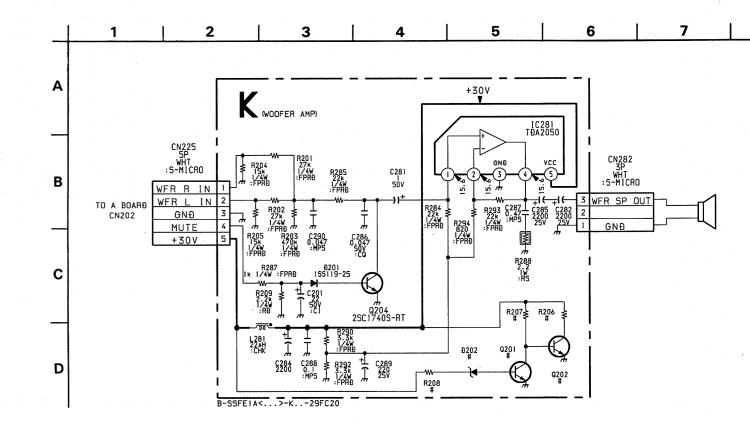
TRAP CERAMIC 6.5MHZ 2SC1623-L5L6 2SC1623-L5L6 100 5.6K 22K 470 3.3K 22K 10K 100 220 1K 10 680 470

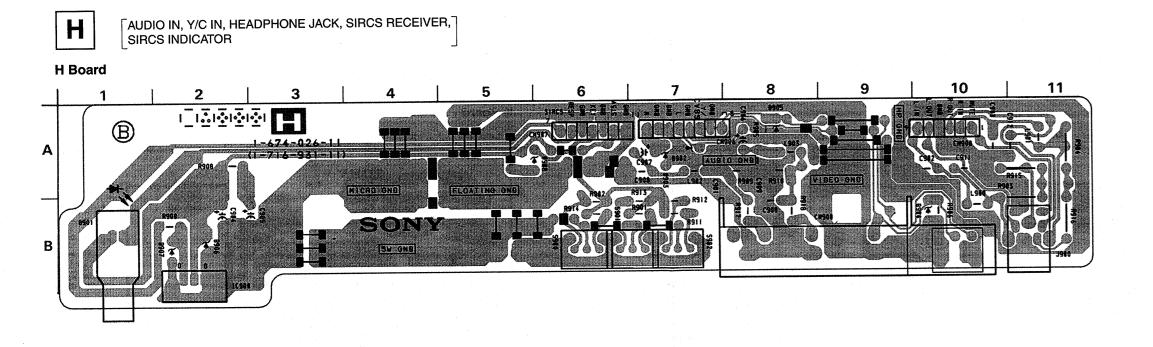


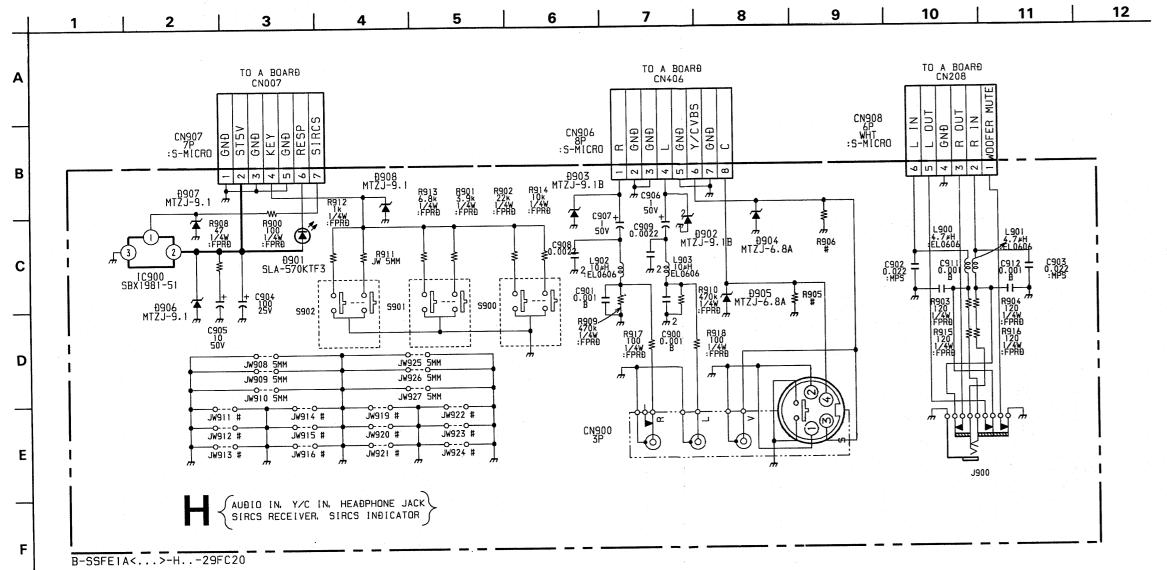


S1 [STEREO PROCESSOR]



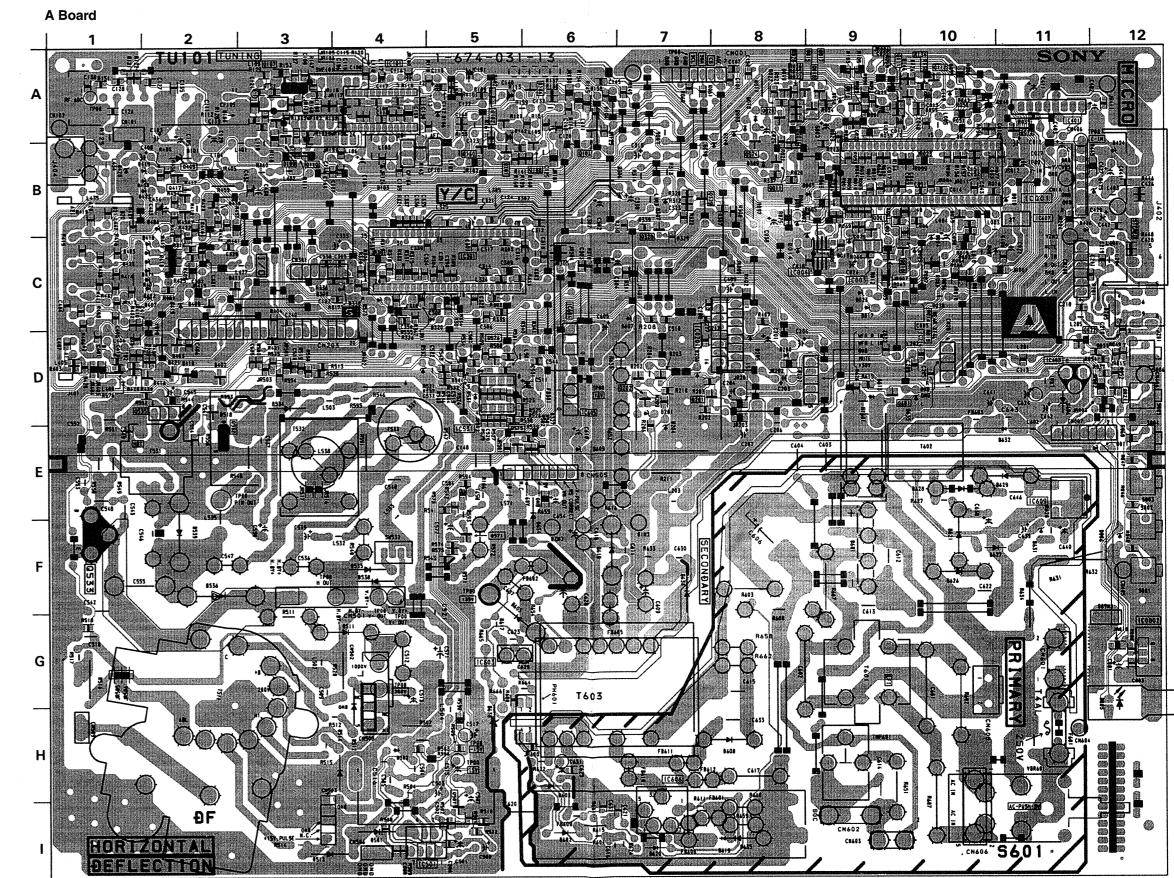






BOARD					
	IC	Q532	E-2	D419	B -1
IC001	B - 11	Q533	F - 1	D420	B -1
IC003	C - 9	Q535	D - 1	D421	D-2
IC004	C - 9	Q571	F-5	D422	C-1
IC101	A - 4	Q574	B - 8	D423	C-1
IC201	C - 7	Q575	E - 6	D424	B - 12
IC301	C - 5	Q576	C - 6	D427	B-2
IC401	A - 11	Q601	D - 10	D430	B-3
IC501	1 - 4	*		D501	1-4
IC531	D - 5	DI	ODE	D502	H - 4
IC603	G - 5	D001	B - 8	D511	G-3
IC604	C - 6	D002	B-8	D512	H-3
IC605	D - 6	D004	C - 10	D513	1-3
IC606	1-7	D007	C - 11	D514	H-3
IC607	B - 11	D008	B - 8	D534	D-3
IC608		D011	E - 12	D535	F-4
IC609	E-11	D013	C - 9	D536	F-2
	ISISTOR	D015	C - 9	D538	F-4
	C-9	D017	C - 9	D539	F-2
Q010	C - 10	D018	B - 8	D541	D-5
Q011	B - 8	D019	A - 8	D571	F-5
Q012	B - 11	D023	C - 9	D601	F-9
Q013	A - 9	D098	A - 9	D602	1-6
Q016	B-8	D099	A - 10	D603	H-6
Q017	A - 9	D101	B-2	D605	G-6
Q017 Q018	A-9	D104	A - 3	D608	H-8
Q019	A - 9	D201	D-7	D610	F-7
	A - 8	D202	D - 7	D613	E-9
Q020	D - 12	D202	D - 7	D619	1-8
Q021 Q022	D-12	D204	D - 7	D620	1-7
		D205	D - 8	D621	F - 10
Q101	B - 5 A - 5	D205	D - 7	D626	F - 10
Q102		D306	B-6	D627	F - 10
Q104	A - 6		C-7	D629	E - 11
Q107	A-3	D307	C-5	D631	F-11
Q108	B-6	D320		D632	E - 10
Q109	B-3	D402	D-2		
Q110	B-3	D403	D-2	D633	E-9 F-7
Q111	A - 10	D404	D-2	D634	
Q112	A - 10	D405	C-1	D654	F - 6
Q160	B - 5	D406	C-2		
Q201	E-8	D407	C-2		
Q202	D - 7	D408	B-2		
Q328	C-7	D409	C-2		
Q329	B - 7	D410	D-2		
Q405	B - 2	D411	C - 2		
Q417	B-2	D414	C - 1		
Q418	B - 2	D416	D - 2		
Q501	l - 5	D418	C - 1		

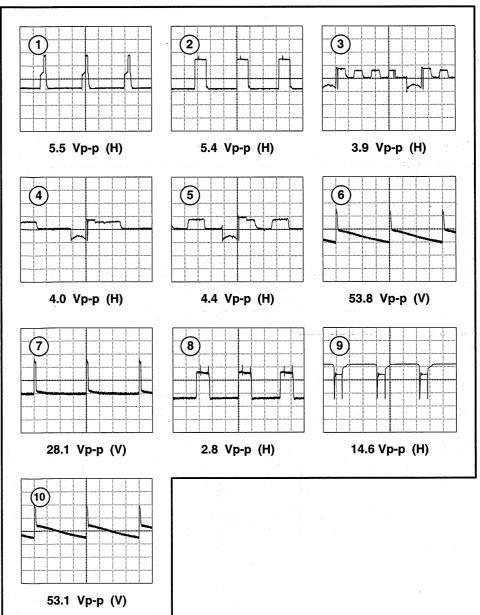
POWER SUPPLY, DEFLECTION, TUNING, PROCESSOR VIDEO SIGNAL PROCESSOR, AV IN/OUT



7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 2 CN404
GNB 1
CN405
GNB 1
CN401
GNB 1
CN402
GNB 1
CN402
GNB 1
CN403
GNB 1 C022 9007 10V MTZJ-5.6B IC401 NJM2233BL # 8509 C580 T ZPB601AM-11-2
BUFFER

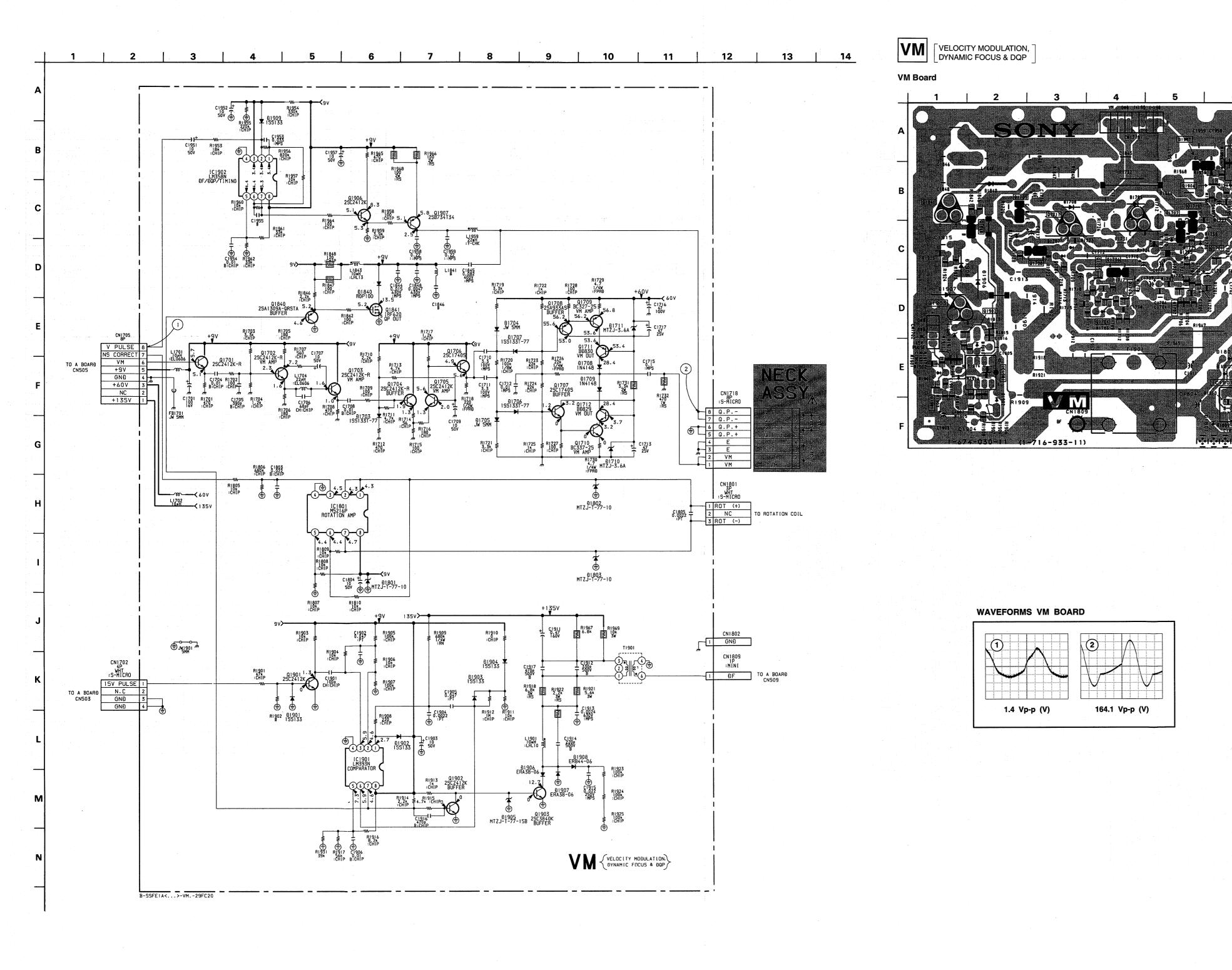
C003 T C001 T R008 B006 R658 R662 C615 1904 1905 6.057 185 185 185

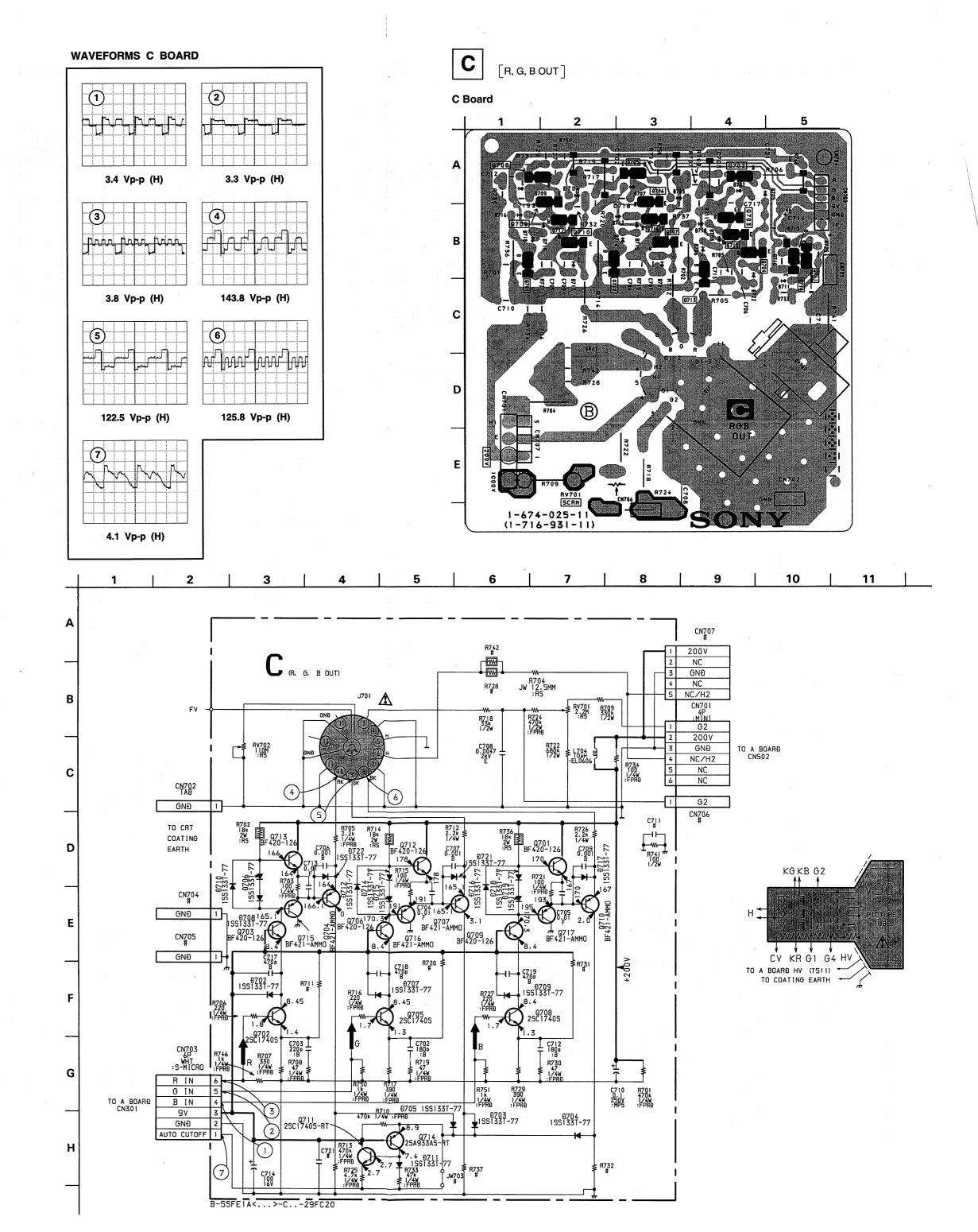
WAVEFORMS A BOARD



A BOARD *MARK

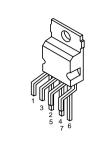
Ref	29FC20A	29FC20B	29FC20D	29FC20E
C100		0.1MF	<u>.</u> :	- !
C111	SHORT 0	0.01MF	SHORT 0	SHORT 0
C121	•	0.01MF	- i	-
C123	150PF		150PF	150PF
C124	47MF		47MF	47MF
C125	47PF		47PF	47PF
C132	68PF	•	68PF	68PF
C133		1MF	<u>-</u>	•
C140		47MF	•	
CF105		TRAP CERAMIC		
D102	-	BA592-GEG	-	
D104	TD 4004-744	DAN202K		TDA00470/4
IC101	TDA9817/V1	TDA9818/V1	TDA9817/V1	TDA9817/V1
JR113	SHORT 0	-	SHORT 0	SHORT 0
JR130	TRACE STATE	SHORT 0	<u>- ` </u>	- :
L105	10UH	-	10UH	10UH
L108		0.22UH	•	-
L109		0.47UH	-	• i.
L117		4.7UH	_	-
Q102		2SA1037AK		<u>-</u>
Q104	•	DTC144EKA	<u> </u>	
Q107	-	2SC3779C, D-AA	y dia waa f a ay gara	
Q108	2SC1623-L5L6		2SC1623-L5L6	2SC1623-L5L6
Q109		DTC144EKA	• • • • • • • • • • • • • • • • • • • •	
Q110		DTC144EKA		<u> </u>
Q160	2SD601A-Q-TX	-	2SD601A-Q-TX	2SD601A-Q-TX
R109	•	3.3K	<u> </u>	-
R110		1.2K		-
R111	<u> </u>	1.5K	<u>-</u>	
	-	1.5K		
R112	•	-		:
R113		120	011007.0	
R114	SHORT 0	470	SHORT 0	SHORT 0
R123	i .	330		-
R127	<u> </u>	180	· · · · · · · · · · · · · · · · · · ·	- :
R128	<u>-</u>	4.7K		-
R129	•	3.9K	-	•
R133	SHORT 0	-	SHORT 0	SHORT 0
R137	270	2.2K	270	270
R138	100K	39K	100K	100K
R139	68K	12K	68K	68K
R140	270	10K	270	270
R141	560	SHORT 0	560	560
R142		560	- <u>'</u>	-
R143	120	-	120	120
R147	-	47	.)	-
R148	<u>-</u>	100		· -
R149	<u> </u>	1K	-	_
	<u> </u>	100	- :	-
R152		 	·	
R156		4.7K	-:	-
R157	•	4.7K		
R158		100	<u> </u>	•
R159	3.3K	1.5K	3.3K	3.3K
R160	1K	SHORT 0	1K,	1K
R161	68	SHORT 0	68	68
RV101	<u> </u>	22K	-	-
SWF101	1-767-874-11	1-579-273-11	1-767-874-11	1-767-874-11
SWF103	-	FILTER, SURFACE WAVE	-	-
TU101	BTP-AC411	TELE9-001A	BTP-AC411	BTP-AC411



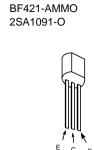


5-4. SEMICONDUCTORS (1)

LM358DR-EZ NJM2233BL NJM4558M-TE2 NJM2903D (TOP VIEW)



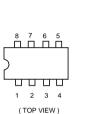
STV9379

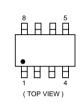


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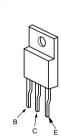


ST24W08FM6TR

TDA7495

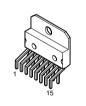


IRF614



SBX1981-51

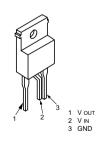




2SC4793

2SA933AS-QRT

SE-135N SE135N-LF12

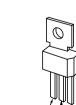




TDA9818-V1

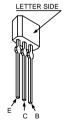
TDA9817-V1

TOP209P

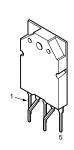


BF871-127

2SAG33ASQT 2SA933AS-RT 2SC1740S-RT

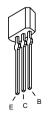


STR-F6654



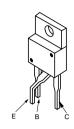


2SC2785-HFE

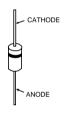


5-4. SEMICONDUCTORS (2)

2SK2251-01-F19



AK04-V1 ERD28-08S AU-01Z-V1 ERC06-15SL BYD33G FMN-G12S BYD33G-GP08D AMMO RG1CLF-B1 DINL20-TR RGP10GPKG23 ERB44-06TP1 RU-3AM EGP20G RU3YX-LF-C4 EG-1Z-V1 RU3YX-V1 EL1Z RU-4AM-T3 1SS292T-77 ERD28-06S

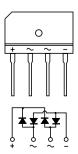


DAN202K DAN202K-T146

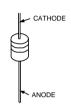




D4SB60L



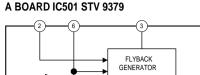
ERA81-004TP1 MTZJ-T-77-33A MTZJ-33C ERA83-006 MTZJ-3.6A MTZJ-7.5B MTZJ-T-77-2.2A RD3.9ES-B2 HZS9.INBZ RD5.6ESB2 RD6.8ES-B2 MTZJ-T-77-3.9B MTZJ-T-77-5.6B RD7.5ESB2 MTZJ-T-77-5.6C RD9.1ES-B3 MTZJ-T-77-6.8A RD10ESB2 MTZJ-T-77-6.8C RD15ESB2 MTZJ-T-77-7.5C 1SS119-25 MTZJ-T-77-9.1A 1SS133T-77 MTZJ-T-77-10

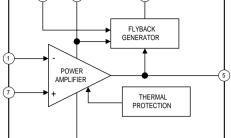


SLA-570KT3F

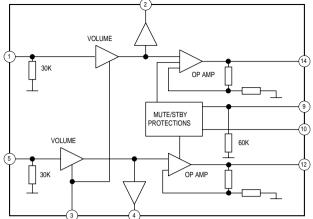


5-5. IC BLOCK DIAGRAMS

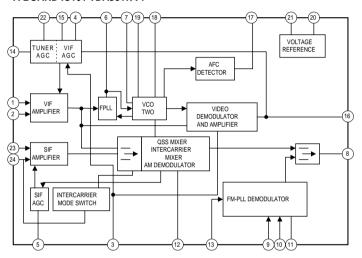




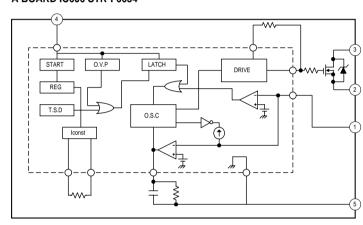
A BOARD IC201 TDA7495



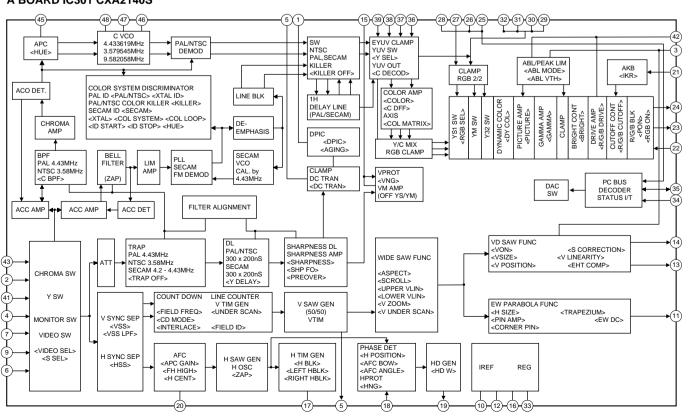
A BOARD IC101 TDA9817/V1



A BOARD IC606 STR-F6654



A BOARD IC301 CXA2140S



SECTION 6 EXPLODED VIEWS

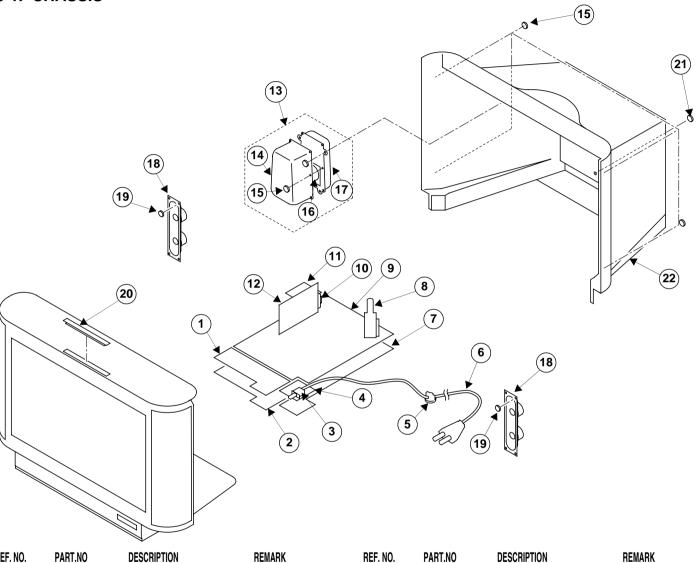
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

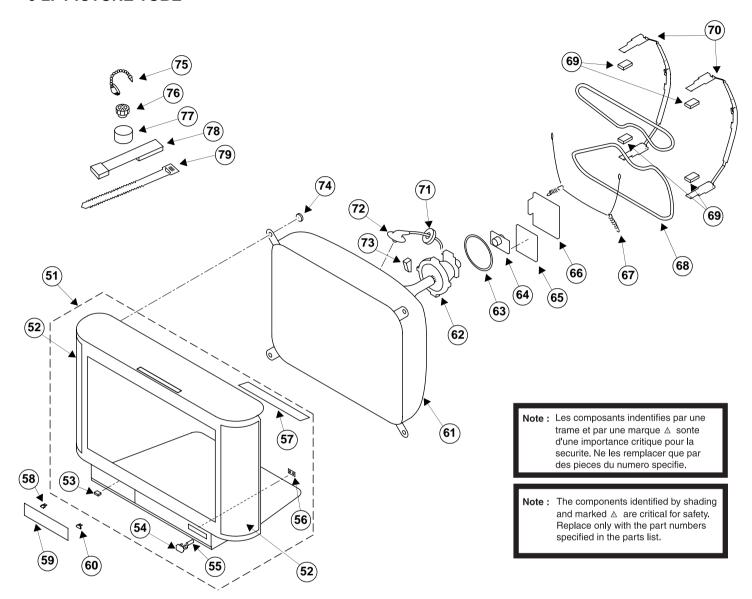
Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



REF. NO.	PART.NO	DESCRIPTION REMARK	REF. NO.	PART.NO	DESCRIPTION REMARK
1	*A-1646-184-A	H BOARD, COMPLETE	11	*A-1649-023-A	K BOARD, COMPLETE
2	*4-204-744-01	BRACKET, H	12	*A-1654-041-A	S1 BOARD, COMPLETE
3 ▲	1-571-433-21	SWITCH, PUSH (AC POWER)			(KV-29FC20A/29FC20D)
4	*A-1624-080-A	F BOARD, COMPLETE		*A-1654-039-A	S1 BOARD, COMPLETE (KV-29FC20B)
5	*4-202-531-01	AC CORD LOCK (SC)		*A-1654-040-A	S1 BOARD, COMPLETE (KV-29FC20E)
6 △	1-765-286-11	CORD POWER	13	*A-1678-172-A	BLOCK ASSY, SP 14-17
7	*4-202-773-01	BRACKET, MAIN	14	*4-204-776-11	BOX, WOOFER
8 🛕	1-453-308-11	TRANSFORMER ASSY, FLYBACK (NX-4521//U2B4)	15	4-039-358-01	SCREW (4x16), (+) BV TAPPING
9	*A-1632-833-A	A BOARD, COMPLETE (KV-29FC20A)	16	1-529-417-11	SPEAKER (8CM)
	*A-1632-832-A	A BOARD, COMPLETE (KV-29FC20B)	17	*4-204-775-21	BAFFLE, WOOFER
	*A-1632-831-A	A BOARD, COMPLETE (KV-29FC20D)	18	1-529-408-11	LOUD SPEAKER (4.2x24CM)
	*A-1632-830-A	A BOARD, COMPLETE (KV-29FC20E)	19	4-384-096-01	SCREW (4x16), TAPPING, +P
10	8-598-432-10	TUNER (BTP-AC411)	20	4-204-399-01	PLATE, TOP
		(KV-29FC20A/29FC20D/29FC20E)	21	4-039-356-01	SCREW (3x12), (+) BV TAPPING
	1-693-418-11	TUNER (TELE9-001A) (KV-29FC20B)	22	4-204-404-11	COVER, REAR

6-2. PICTURE TUBE



REF. NO		PART.NO	DESCRIPTION	REMARK	REF. NO	ı	PART.NO	DESCRIPTION	REMARK
51		X-4200-489-1	BEZNET ASSY	53-57	66		*A-1638-127-A	C BOARD, COMPLET	E
52		X-4200-419-3	GRILLE ASSY, SPEAKER	1	67		4-200-433-01	SPRING, EXTENSIO	N
53		4-042-192-11	CATCHER, PUSH		68	Δ	1-416-654-11	COIL, DEMAGNETIC	
54		4-204-718-01	BUTTON, POWER		69		*4-203-390-21	CUSHION, DGC	
55		4-202-964-01	SPRING		70		*4-204-786-01	HOLDER, DGC	
56		4-204-716-01	GUIDE, LIGHT		71		3-704-372-01	HOLDER, HV CABLE	
57		4-204-058-21	SHEET, BLOTTING		72	Δ	1-251-528-21	CAP ASSY, HIGH-V	OLTAGE
58		4-202-555-01	SHAFT, DOOR		73		3-704-495-01	SPACER, DY	
59		4-204-717-01	DOOR, CONTROL		74		4-036-188-02	SCREW, SELF TAPP	ING
60		4-045-250-01	DAMPER		75		4-308-870-00	CLIP, LEAD WIRE	
61	Δ	8-735-053-05	PICTURE TUBE (M68LNH	060X)	76		1-452-094-00	MAGNET, ROTATABL	E DISK; 15MM
62	Δ	8-451-494-21	DEFLECTION YOKE (Y29	RSA-M2)	77		1-425-032-00	MAGNET, DISK; 10	MM
63		1-452-896-11	COIL, NA ROTATION, (RT200)	78		X-4387-214-1	PERMALLOY ASSY,	CORRECTION
64	Δ	8-453-011-11	NECK ASSY, NA299-M		79		3-701-007-00	BAND, BINDING	
65		*A-1674-140-A	VM BOARD, COMPLETE						

SECTION 7 ELECTRICAL PARTS LIST

PARTS LISTING TABLE OF CONTENTS

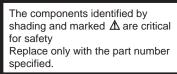
		<u>Page</u>				
F BOARD COMPLETE Parts List	:	57				
A BOARD COMMON Parts List :	Parts common to all models listed in this manual	57				
A BOARD VARIANT Parts List :	Parts that belong only to the model specified					
<u>Model</u>						
KV-29FC20A/29FC20	DD/29FC20E	64				
KV-29FC20B		65				
C BOARD COMPLETE Parts List	:	66				
VM BOARD COMPLETE Parts Lis	ıt:	67				
H BOARD COMPLETE Parts List	:	69				
K BOARD COMPLETE Parts List	:	70				
S1 BOARD COMMON Parts List	: Parts common to all models listed in this manual	70				
S1 BOARD VARIANT Parts List :	Parts that belong only to the model specified					
<u>Model</u>						
KV-29FC20A/29FC20	OD	71				
KV-29FC20B		71				
KV-29FC20E		72				
MISCELLANEOUS:		72				
ACCESSORIES AND PACKAGING MATERIALS :						

Note: Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)

Parts indicated (#) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.



spec	ified.										L	
REF. NO.	PART.NO	DESCRIPTIO	N	F	REMARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK	
*A_16	624-080-A F	Board, Co	mplete			C103	1-104-665-11	ELECT	100MF	20%	25V	
A-1	324-000-A I	Board, Co	inpiete			C105	1-126-965-11	ELECT	22MF	20%	50V	
	< CONNEC	TOR >				C107	1-163-013-91	CERAMIC CHIP	2200PF	10%	50V	
						C108	1-163-465-11	CERAMIC CHIP	9PF	0.25PF	50V	
	△ *1-580-844-11			nn\		C109	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
CN604	↑ *1-691-292-11	PIN, CONNECT	OR (PC BOAL	KD) 3P		C110	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
	< FUSE >	•				C112	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
						C115	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V	
F601	△ 1-532-350-00	FUSE 4A/250V				C116	1-126-961-11	ELECT	2.2MF	20%	50V	
	△ *1-533-725-11	HOLDER, FUSE	(F601)			C117	1-126-961-11	ELECT	2.2MF	20%	50V	
	< SWITCH	i >				C118	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
						C120	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
S601	△ 1-571-433-21	SWITCH, PUSH	(AC POWER))		C122	1-163-013-91	CERAMIC CHIP	2200PF	10%	50V	
						C129	1-104-664-11	ELECT	47MF	20%	16V	
		Board, Co			9FC20A)	C130	1-163-013-91	CERAMIC CHIP	2200PF	10%	50V	
		A Board, Co A Board, Co			9FC20B) 9FC20D)	C134	1-128-551-11	ELECT	22MF	20%	25V	
*A-16		Board, Co		(KV-2	9FC20E)	C135	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
						C138	1-165-319-11	CERAMIC CHIP	0.1MF		50V	
А Во	ard Common	Parts				C139	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
						C143	1-104-664-11	ELECT	47MF	20%	25V	
	4-382-854-11	SCREW (M3X10), P, SW (+	+)		C146	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
	< CAPACI	יש∩ס >				C147	1-163-013-91	CERAMIC CHIP	2200PF	10%	50V	
	(CAIACI	.ION /				C149	1-126-959-11	ELECT	0.47MF	20%	50V	
C002	1-115-339-11	CERAMIC CHIP	0 1MF	10%	50V	C150	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C005	1-163-105-00	CERAMIC CHIP		5%	50V	C151	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C006	1-163-105-00			5%	50V							
C009	1-128-551-11		22MF	20%	25V	C152	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C010	1-126-960-11	ELECT	1MF	20%	50V	C160	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
						C201	1-104-666-11		220MF	20%	25V	
C011	1-126-965-11	ELECT	22MF	20%	50V	C202		CERAMIC CHIP	2200PF	10%	50V	
C012	1-126-963-11	ELECT	4.7MF	20%	50V	C203	1-126-942-61	ELECT	1000MF	20%	25V	
C013	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V							
C014	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C204	1-126-942-61		1000MF	20%	25V	
C016	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C205		CERAMIC CHIP			50V	
						C206	1-126-960-11		1MF	20%	50V	
C017	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C207	1-126-972-11		1000MF	20%	50V	
C018	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C209	1-163-033-91	CERAMIC CHIP	U.U22MF		50V	
C022	1-126-925-11	ELECT	470MF	20%	10V	0010	1 160 010 00	מבווא מדער מיידי	0.0000	100	E 017	
C023	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C213		CERAMIC CHIP		10%	50V	
C024	1-104-665-11	ELECT	100MF	20%	10V	C214		CERAMIC CHIP		10%	50V	
						C215 C216	1-115-339-91	CERAMIC CHIP		10% 10%	50V 50V	
C025	1-104-664-11		47MF	20%	10V	C216 C217		CERAMIC CHIP		106	25V	
C027	1-104-665-11		100MF	20%	10V	CZII	1-164-005-91	CERAMIC CHIP	4/00001		230	
C033		CERAMIC CHIP		10%	25V	C240	1_162_021_11	CERAMIC CHIP	0 01ME		50V	
C035		CERAMIC CHIP		10%	50V	C301	1-163-031-11				16V	
C038	1-126-964-11	ELECT	10MF	20%	50V	C301	1-104-346-91		47MF	20%	16V	
						C302		CERAMIC CHIP		20% 10%	50V	
C040		CERAMIC CHIP		10%	50V	C303	1-163-021-91		10MF	10% 20%	50V 50V	
C041		CERAMIC CHIP		10%	50V	6304	T 120-304-11	THECT	TOPP	200	J0 V	
C050	1-126-925-11		470MF	20%	10V	C306	1-163-013-01	CERAMIC CHIP	22000₽	10%	50V	
C051		CERAMIC CHIP		10%	50V	C308	1-163-013-91			10%	25V	
C102	1-163-031-91	CERAMIC	2200PF	10%	50V	6300	1-104-004-11	CERMIT CHIP	V. IM	TOD	234	





REF. NO.	PART.NO	DESCRIPTIO	N	RE	MARK	REF. NO.	PART.NO	DESCRIPTIO	N	RE	EMARK
C309	1-164-506-11	CERAMIC CHIP	4.7MF		16V	C515	1-104-666-11	ELECT	220MF	20%	25V
C312	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	C517	1-104-666-11	ELECT	220MF	20%	25V
C313	1-163-233-11	CERAMIC CHIP		5%	50V	C518	1-106-375-12	MYLAR	0.022MF	10%	250V
C314	1-164-222-11	CERAMIC CHIP			25V	C519	1-163-275-11	CERAMIC CHIP		5%	50V
C316	1-163-259-91	CERAMIC CHIP		5%	50V	C520	1-163-038-91	CERAMIC CHIP			25V
					0.500		4 400 400 00				
C317	1-164-222-11	CERAMIC CHIP			25V	C522	1-130-495-00	FILM	0.1MF	5%	50V
C319	1-126-964-11	ELECT	10MF	20%	50V	C531	1-126-964-11	ELECT	10MF	20%	50V
C321	1-126-963-11	ELECT	4.7MF	20%	50V	C532	1-163-037-11	CERAMIC CHIP		10%	50V
C322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C536	1-115-521-11	FILM	0.82MF	5%	250V
C328	1-104-664-11	ELECT	47MF	20%	25V	C537	1-137-417-11	MYLAR	0.0047MF	10%	200V
C329	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C538	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C330	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C539	1-111-230-11	ELECT	1MF	20%	160V
C331	1-163-021-91	CERAMIC CHIP		10%	50V	C540	1-136-206-11	FILM	0.033MF	10%	400V
C332	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	C541	1-106-383-00	MYLAR	0.047MF	10%	200V
C333	1-126-960-11		1MF	20%	50V	C542	1-161-754-00	CERAMIC	0.001MF	10%	2KV
0224	1 160 017 00	GEDANTO CUTT	0 004714	100	E 037	0540	1 100 104 14	CEDANTO	47000	100	OPT
C334	1-163-017-00	CERAMIC CHIP		10%	50V	C543	1-162-134-11	CERAMIC	470PF	10%	2KV
C335	1-163-021-91	CERAMIC CHIP		10%	50V	C545	1-126-960-11	ELECT	1MF	20%	50V
C336	1-163-021-91	CERAMIC CHIP		10%	50V	C546	1-130-118-00	FILM	0.051MF	5%	400V
C337	1-163-021-91	CERAMIC CHIP		10%	50V	C547	1-115-521-11	FILM	0.82MF	5%	250V
C338	1-126-967-11	ELECT	47MF	20%	50V	C548	1-162-134-11	CERAMIC	470PF	10%	2KV
C339	1-164-346-91	CERAMIC CHIP	1MF		16V	C550	1-107-638-11	ELECT	33MF	20%	160V
C350	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C552	1-102-212-00	CERAMIC	820PF	10%	500V
C351	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C553	1-108-417-91	CAPACITOR	0.0047MF	10%	200V
C401	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C555	1-128-935-11	CAPACITOR	19000PF	3%	1200V
C402	1-126-964-11		10MF	20%	50V	C571	1-123-024-21	ELECT	33MF		160V
C403	1-126-964-11	ELECT	10MF	20%	50V	C572	1-107-882-91	ELECT	100MF	20%	16V
C405	1-163-009-11	CERAMIC CHIP		10%	50V	C580	1-163-021-91	CERAMIC CHIP		10%	50V
C408	1-126-964-11	ELECT	10MF	20%	50V	C582	1-163-259-91	CERAMIC CHIP		5%	50V
C408	1-126-964-11		1MF	20% 20%	50V	C584	1-105-259-91	ELECT	4.7MF	20%	50V
									0.1MF		300V
C411	1-126-964-11	ELECT	10MF	20%	50V	C601	△ 1-107-563-11	FILM	U.IMF	20%	3007
C413	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C602	△ 1-107-563-11	FILM	0.1MF	20%	300V
C417	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C603	△ 1-119-888-51	CERAMIC	2200PF	20%	250V
C430	1-104-664-11	ELECT	47MF	20%	25V	C604	△ 1-119-888-51	CERAMIC	2200PF	20%	250V
C432	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C605	1-104-665-11	ELECT	100MF	20%	10V
C433	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C606	1-125-318-00	ELECT (BLOCK)	220MF	20%	400V
C434	1-126-935-11	ELECT	470MF	20%	16V	C607	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C501	1-126-968-11		100MF	20%	50V	C609	1-128-550-11		2200MF	20%	50V
C501		CERAMIC CHIP			25V	C610	1-104-665-11		100MF	20%	25V
C502	1-105-058-91		100MF	20%	50V	C611	1-165-127-11		470PF	10%	500V
C503	1-126-966-11		0.1MF	20% 10%	100V		△ 1-161-964-51		0.0047MF	100	250V
C505	1-137-194-81		0.47MF	5%	50V		△ 1-161-964-51		0.0047MF		250V
C506		CERAMIC CHIP		10%	50V		△ 1-161-964-51		0.0047MF		250V
C507	1-126-933-11	ELECT	100MF	20%	16V	C615	1-130-202-00	FILM	0.022MF	10%	400V
C508	1-126-960-11	ELECT	1MF	20%	50V	C616	1-162-318-11	CERAMIC	0.001MF	10%	500V
C509	1-107-364-11	MYLAR	0.01MF	10%	400V	C618	1-107-890-11	ELECT	2200MF	20%	25V
C512	1-162-114-00	CERAMIC	0.0047MF		2KV	C621	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C512	1-107-662-11		22MF	20%	250V		△ 1-161-964-51		0.0047MF		250V
JJ 13	1 10/ 002 11			_00		UVLL	1 201 701 71	JERUSTE	V. VVI IPIE		2001

The components identified by shading and marked Δ are critical for safety Replace only with the part number specified.



14	REF. NO.	PART.NO	DESCRIPTI	ION	F	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
10	C623	1-107-364-11	MYLAR	0.01MF	10%	400V	D004	8-719-109-89	DIODE RD5.6ESB2	
124-347-06 LIEST 100He	C624	1-104-665-11	ELECT	100MF	20%	10V	D005	8-719-109-89	DIODE RD5.6ESB2	
1-165-127-11 CERAMIC 470FF 104 5007 1000 8-719-103-80 100E RD5. 68582 1-104-652-11 ELECT 100FF 204 4507 1011 8-719-109-89 100E RD5. 68582 1-104-66-11 ELECT 100FF 204 4507 1011 8-719-109-89 100E RD5. 68582 1-104-66-11 ELECT 204 204 107 1015 8-719-910-99 100E RD5. 68582 1014-66-11 ELECT 204 204 107 1015 8-719-910-99 100E RD5. 68582 1014-66-11 ELECT 204 204 107 1015 8-719-910-99 100E RD5. 68582 1017-77-71 1017-932-11 ELECT 204 107 1018 8-719-91-93 100E RD5. 68582 1017-77-71 1017-932-11 ELECT 204 107 1019 8-719-91-93 100E RD5. 68582 1017-77-71 1017-932-11 ELECT 204 107 1019 8-719-91-93 100E RD5. 68582 1019 1019 1019 8-719-92-36 100E RD5. 68582	C625	1-104-665-11	ELECT	100MF	20%	25V	D007	8-719-109-89	DIODE RD5.6ESB2	
1-104-323-11 CERAMIC 470FF 104 270	C628	1-124-347-00	ELECT	100MF	20%	160V	D008	8-719-991-33	DIODE 1SS133T-77	
10	C630	1-165-127-11	CERAMIC	470PF	10%	500V	D009	8-719-109-89	DIODE RD5.6ESB2	
138	C633	1-104-332-11	CERAMIC	470PF	10%	2KV	D010	8-719-923-36	DIODE MTZJ-77-5.6	
1-1-10-4-64-11	C638	1-107-679-41	ELECT	10MF	20%	450V	D011	8-719-109-89	DIODE RD5.6ESB2	
11	C639	1-104-665-11	ELECT	100MF	20%	25V	D014	8-719-109-89	DIODE RD5.6ESB2	
12 1-104-658-91 ELECT 100MF 20% 10V D018 8-719-991-33 D100E RDS.139T-77 D019 8-119-914-43 D100E D010E	C640	1-104-664-11	ELECT	47MF	20%	10V	D015	8-719-914-43	DIODE DAN202K	
1-107-932-11 ELECT 47MF 20% 100V D023 8-719-914-43 DIODE DATACOCK D024 8-719-923-8 D100E MT3.7-E-77-5.68 D024 8-719-923-8 D100E MT3.7-E-77-5.68 D024 8-719-923-8 D100E MT3.7-E-77-5.69 D026 MT3.7-E-77-	C641	1-111-034-11	ELECT	220MF	20%	16V	D017	8-719-109-89	DIODE RD5.6ESB2	
Commercial Plane Silver	C642	1-104-658-91	ELECT	100MF	20%	10V	D018	8-719-991-33	DIODE 1SS133T-77	
Connector Conn	C654	1-107-932-11	ELECT	47MF	20%	100V	D019	8-719-914-43	DIODE DAN202K	
101							D023	8-719-109-89	DIODE RD5.6ESB2	
1-404-134-00 TRAP, CERMIC (5.5MEZ)		< FILTER	! >				D024	8-719-923-38	DIODE MTZJ-T-77-5.6B	
1-767-873-11 FILTER, SURFACE WAVE	CE1 01	1 404 124 00	MDAD CEDAM	ITC /E EMUZ)			D098	8-719-982-96	DIODE MTZJ-T-77-2.2A	
CONNECTOR >	2E 101	T-404-T34-00	IRAF, CERAM	iic (J.JMR4)			D099	8-719-982-96	DIODE MTZJ-T-77-2.2A	
CONNECTOR D106 8-719-982-96 D10B MTZJ-T-77-2.2A	SWF102	1-767-873-11	FILTER, SUR	RFACE WAVE			D101	8-719-982-24	DIODE MTZJ-33A	
D200 8-719-923-36 D10DE MTZJ-77-5.6							D103	8-719-923-36	DIODE MTZJ-77-5.6	
1-564-508-51 PIN, CONNECTOR 5P D201		< CONNEC	TOR >				D106	8-719-982-96	DIODE MTZJ-T-77-2.2A	
1-58-882-51 PIN, CONNECTOR 7P D201 8-719-923-15 DIODE HZS9.1NB2	ONTO 0.1	+1 ECA EOO E1	DIN CONNEC	mon En			D200	8-719-923-36	DIODE MTZJ-77-5.6	
1-695-915-21 TAB (CONTACT) D202 8-719-914-43 DIODE DANZOZK	CNOOT		•				ח201	8-710-020-15	DIODE H750 1NB2	
1-564-507-11 PLUG CONNECTOR 4P D203	N101		•							
1-564-508-11 PLUG, CONNECTOR 5P D204 8-719-109-89 D10DE RD5.6ESB2	CN201		-	-						
D205 8-719-109-89 DIODE RD5.6ESB2	CN201									
1-766-957-11 CONNECTOR, BOARD TO BOARD 20P	CMZUZ	1 304 300 11	FIOG, CONNE	ICTOR JE						
208 *1-564-509-11 PLUG, CONNECTOR 6P D206 8-719-109-89 DIODE RD5.6ESB2 301 *1-564-509-11 PLUG, CONNECTOR 6P D207 8-719-914-47 DIODE DANZOZK 301 *1-564-509-11 PLUG, CONNECTOR 6P D208 8-719-921-20 DIODE ISSI19-25TD 302 4-352-844-01 PIN, LEAD COATING D209 8-719-921-20 DIODE ISSI19-25TD 303 4-352-844-01 PIN, LEAD COATING D209 8-719-921-20 DIODE ISSI19-25TD 304 4-352-844-01 PIN, LEAD COATING D306 8-719-921-20 DIODE RD5.6ESB2 305 4-352-844-01 PIN, LEAD COATING D307 8-719-109-89 DIODE RD5.6ESB2 306 *1-544-511-11 PLUG, CONNECTOR 8P D320 8-719-929-15 DIODE HZS9.1NB2 307 *1-580-798-11 CONNECTOR 4P D401 8-719-923-67 DIODE MA3130WA-TX 308 *1-564-507-11 PLUG, CONNECTOR 4P D403 8-719-421-59 DIODE MA3130WA-TX 309 *1-564-511-11 PLUG, CONNECTOR 8P D404 8-719-421-59 DIODE MA3130WA-TX 309 *1-564-511-11 PLUG, CONNECTOR 8P D404 8-719-421-59 DIODE MA3130WA-TX 309 *1-564-511-11 PLUG, CONNECTOR 8P D408 8-719-109-89 DIODE RD5.6ESB2 300 *1-580-795-11 TAB (CONTACT) D406 8-719-109-97 DIODE RD6.8ESB2 300 *1-580-796-00 PIN, CONNECTOR (SMM PITCH) 3P D408 8-719-109-97 DIODE RD6.8ESB2 300 *1-591-21 TAB (CONTACT) D409 8-719-421-59 DIODE MA3130WA-TX 301 8-719-421-59 DIODE MA3130WA-TX 302 *1-591-21 TAB (CONTACT) D410 8-719-421-59 DIODE MA3130WA-TX 303 *1-591-21 TAB (CONTACT) D410 8-719-421-59 DIODE MA3130WA-TX 304 *1-591-21 TAB (CONTACT) D410 8-719-421-59 DIODE MA3130WA-T	CN203	*1-766-957-11	CONNECTOR.	BOARD TO BO	ARD 20P		2200	0 125 205 05	21022 130 10202	
Note	CN208						D206	8-719-109-89	DIODE RD5.6ESB2	
101	CN301									
102	CN401									
103	CN402		•				D209	8-719-921-20	DIODE ISS119-25TD	
104			,				D210	8-719-921-20	DIODE ISS119-25TD	
105	CN403	4-352-844-01	PIN, LEAD C	COATING						
106	CN404	4-352-844-01	PIN, LEAD C	COATING			D306	8-719-109-89	DIODE RD5.6ESB2	
Table Tabl	CN405	4-352-844-01	PIN, LEAD C	COATING			D307	8-719-109-89	DIODE RD5.6ESB2	
D402 8-719-421-59 DIODE MA3130WA-TX D402 8-719-421-59 DIODE MA3130WA-TX D403 8-719-421-59 DIODE MA3130WA-TX D404 8-719-421-59 DIODE MA3130WA-TX D405 8-719-421-59 DIODE MA3130WA-TX D406 8-719-109-89 DIODE RD5.6ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D408 8-719-929-15 DIODE RD5.6ESB2 D409 8-719-929-15 DIODE RD5.8ESB2 D409 8-719-421-59 DIODE RD5.8ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D408 8-719-929-15 DIODE RD6.8ESB2 D409 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX D414 8-719-921-88 DIODE MA3130WA-TX D414 8-719-921-88 DIODE MTZJ-T-77-2.2A	CN406	*1-564-511-11	PLUG, CONNE	CTOR 8P			D320	8-719-929-15	DIODE HZS9.1NB2	
1-784-633-11 PIN, CONNECTOR 4P 503 *1-564-507-11 PLUG, CONNECTOR 4P 505 *1-564-511-11 PLUG, CONNECTOR 8P 506 1-695-915-11 TAB (CONTACT) 507 *1-564-511-11 TAB (CONTACT) 508 1-695-915-11 TAB (CONTACT) 509 1-695-915-11 TAB (CONTACT) 500	CN501	*1-580-798-11	CONNECTOR P	PIN (DY)			D401	8-719-923-67	DIODE MTZJ-77-9.1B	
D403 8-719-421-59 DIODE MA3130WA-TX	ONTE O O	1 704 600 11	DIN CONTE	IMOD 45			D402	8-719-421-59	DIODE MA3130WA-TX	
D404	CN502						מאמ	0 710 401 50	DIODE MASSISONS MY	
D405 8-719-109-89 DIODE RD5.6ESB2 D406 8-719-109-89 DIODE RD6.8ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D408 8-719-109-97 DIODE RD6.8ESB2 D409 8-719-292-15 DIODE HZS9.1NB2 D409 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX D414 8-719-921-88 DIODE MTZJ-13B D408 8-719-921-88 DIODE MTZJ-T-77-2.2A	CN503									
D406 8-719-109-97 DIODE RD6.8ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D407 8-719-109-97 DIODE RD6.8ESB2 D408 8-719-109-97 DIODE RD6.8ESB2 D409 8-719-292-15 DIODE RD6.8ESB2 D409 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX D414 8-719-921-88 DIODE MTZJ-13B D408 8-719-929-15 DIODE MTZJ-T-77-2.2A	CN505						-			
D407 8-719-109-97 DIODE RD6.8ESB2 D408 8-719-929-15 DIODE RD6.8ESB2 D408 8-719-929-15 DIODE HZS9.1NB2 D409 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX D411 8-719-921-88 DIODE MTZJ-13B D409 8-719-929-15 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-921-88 DIODE MTZJ-13B	CN506		-	-						
502	CN509	1-032-312-11	TAB (CONTAC	.1)						
503	CN602	△ 1-508-765-00	PIN, CONNEC	TOR (5MM PI	TCH) 3P		1 40 /	0-113-103-31	DIONE KNO.0E9R5	
D409 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX D411 8-719-921-88 DIODE MTZJ-13B D409 8-719-421-59 DIODE MA3130WA-TX D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-921-88 DIODE MTZJ-13B D415 8-719-982-96 DIODE MTZJ-T-77-2.2A	CN603			·			D408	8-719-929-15	DIODE HZS9.1NB2	
D410 8-719-421-59 DIODE MA3130WA-TX D411 8-719-421-59 DIODE MA3130WA-TX OIODE > D414 8-719-921-88 DIODE MTZJ-13B D415 8-719-982-96 DIODE MTZJ-T-77-2.2A	CN606			·						
D411 8-719-421-59 DIODE MA3130WA-TX D414 8-719-921-88 DIODE MTZJ-13B D415 8-719-982-96 DIODE MTZJ-T-77-2.2A	CN608			·			D410			
<pre></pre>			,	•			D411			
		< DIODE	>							
	D001	8-719-109-89	DIODE RD5 6	ESB2			D415	8-719-982-96	DIODE MTZJ-T-77-2.2A	
715 11 15 15 15 15 15 15 15 15 15 15 15 1	0002									
	2 			y - -			<i>*</i>			



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	l	REMARK
D418	8-719-929-15	DIODE HZS9.1NB2		FB608	1-412-911-11	FERRITE	OUH	
D419	8-719-929-15	DIODE HZS9.1NB2		FB609	1-410-396-41	FERRITE	0.45UH	
D420	8-719-109-97	DIODE RD6.8ESB2		FB610	1-410-397-21	FERRITE	1.1UH	
D421	8-719-421-59	DIODE MA3130WA-TX		FB611	1-410-397-21	FERRITE	1.1UH	
D422	8-719-921-88	DIODE MTZJ-13B						
					< IC >			
D424	8-719-929-15	DIODE HZS9.1NB2						
D427	8-719-109-97	DIODE RD6.8ESB2		IC001	8-759-598-33	IC SAA5564PS		
D428	8-719-923-36	DIODE MTZJ-77-5.6		IC003	8-759-336-46	IC PST574D-T		
D429	8-719-923-36	DIODE MTZJ-T-77-5.6		IC004	8-759-527-76	IC M24C08-MN6	T	
D501	8-719-302-43	DIODE EL1Z		IC201	8-759-442-74	IC TDA7495		
				IC301	8-752-091-76	IC CXA2140S		
D502	8-719-924-13	DIODE MTZJ-T-77-22B						
D511	8-719-028-72	DIODE RGP02-17EL-6433		IC401	8-759-064-91	IC NJM2233BL		
D512	8-719-302-43	DIODE EL1Z		IC501	8-759-192-71	IC STV9379		
D513	8-719-979-85	DIODE EGP20G		IC531	8-759-450-95	IC LM393N		
D514	8-719-940-94	RGP15GPKG23		IC603	8-749-920-61			
				IC604	8-759-524-82	IC TYA7805CTV	•	
D534	8-719-302-43							
D535	8-719-908-03			IC605		IC TYA7809CTV		
D536		DIODE ERC06-15S		IC606		IC STR-F6654-		
D538	8-719-908-03			IC607	8-759-591-02	IC L78L33ABZ-	AP	
D539	8-719-312-10	DIODE RU4AM-T3		IC608	8-759-450-47	IC BA05T		
				IC609	8-759-468-89	IC TOP209P		
D541		LEAD, JUMPER (5.0MM)						
D571		DIODE 1SS119-25			< SOCKET	! >		
D601		DIODE D4SB60L						
D602		DIODE AU-01Z-V1		J401		CONNECTOR, DU	AL SCART	
D603	8-719-046-74	DIODE AU-01Z-V1		J404	1-784-632-11	JACK, PIN 2P		
D605	8-719-312-10	DIODE RU4AM-T3			< COIL >	,		
D608	8-719-067-88	DIODE RG1CLF-B1						
D610	8-719-067-78	DIODE RN3Z-LF014-302		L001	1-535-303-00	LEAD, JUMPER	(5.0MM)	
D613	8-719-911-19	DIODE 1SS119-25		L002	1-408-608-31	INDUCTOR	27UH	
D619	8-719-043-76	DIODE AK04V0		L003	1-408-603-31	INDUCTOR	10UH	
				L004	1-408-603-31	INDUCTOR	10UH	
D620	8-719-046-74	DIODE AU-01Z-V1		L005	1-408-603-31	INDUCTOR	10UH	
D621	8-719-068-00	DIODE ERC04-06SE						
D626	8-719-068-00	DIODE ERC04-06SE		L006	1-408-599-41	INDUCTOR	4.7UH	
D627	8-719-510-47	DIODE D1NL20TA		L101	1-412-002-41	INDUCTOR	4.7UH	
D629	8-719-073-23	DIODE STO2D-200TA		L102	1-414-182-11	INDUCTOR	6.8UH	
				L103	1-403-686-11	COIL		
D630	8-719-110-67	DIODE RD27ESB2		L104	1-414-187-11	INDUCTOR	47UH	
D631		DIODE MTZJ-7.5B						
D632	8-719-032-12	DIODE D1NS6		L106	1-414-187-11	INDUCTOR	47UH	
D633	8-719-109-89	DIODE RD5.6ESB2		L110	1-408-611-31	INDUCTOR	47UH	
D634	8-719-067-78	DIODE RN3Z-LF014-302		L111	1-408-611-31	INDUCTOR	47UH	
				L118	1-216-295-91		0	
D654	8-719-302-43	DIODE EL1Z		L201	1-414-177-11	INDUCTOR	1UH	
	< FERRIT	TE BEAD >		L202	1-414-177-11	TNDUCTOR	1UH	
	, ramili			L203	1-406-979-11		220UH	
FB601	1-412-911-11	FERRITE OUH		L301	1-410-993-42		1UH	
FB602	1-412-911-11			L302	1-414-187-11		47UH	
FB603		LEAD, JUMPER (5.0MM)		L303	1-414-186-31		33UH	
FB605	1-410-397-21				- 111 100 31		JJV11	
	1 110 001 21							

The components identified by shading and marked Δ are critical for safety Replace only with the part number specified.



L402 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-412-002-31 1-412-002-31 1-412-002-31 1-535-143-61 1-414-181-11 1-414-181-11 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP LEAD, JUMPER INDUCTOR	4.7UH 4.7UH 4.7UH (5.0MM) 4.7UH 4.7UH 1UH 47UH 22UH 4.7UH	Q418 Q501 Q532 Q533 Q535 Q571 Q574 Q575 Q576 Q601 JR023 JR124 JR125 JR132	8-729-422-33 8-729-422-33 8-729-038-83 8-729-049-08 8-729-119-80 8-729-105-08 8-729-422-33 1-801-806-11 8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR SHORT SHORT SHORT	2SD601A- 2SK2251- BU2515DX 2SC2688- 2SA1330- 2SD601A- DTC144EK 2PD601AR	Q-TX 01-F1 :-127 LK 06 Q-TX :A	9
L405 1 L406 1 L407 1 L408 1 L427 1 L434 1 L435 1 L447 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L533 1	1-412-002-31 1-412-002-31 1-412-002-31 1-412-002-31 1-535-143-61 1-414-181-11 1-414-181-11 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP LEAD, JUMPER INDUCTOR	4.7UH 4.7UH 4.7UH 4.7UH (5.0MM) 4.7UH 4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH	Q532 Q533 Q535 Q571 Q574 Q575 Q576 Q601 JR023 JR124 JR125	8-729-038-83 8-729-049-08 8-729-119-80 8-729-105-08 8-729-422-33 1-801-806-11 8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR SHORT SHORT SHORT	2SK2251- BU2515DX 2SC2688- 2SA1330- 2SD601A- DTC144EK 2PD601AR 2SA1037A	01-F1 -127 LK 06 Q-TX A	9
L405 1 L406 1 L407 1 L408 1 L427 1 L434 1 L435 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L533 1	1-412-002-31 1-412-002-31 1-412-002-31 1-412-002-31 1-535-143-61 1-414-181-11 1-414-181-11 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP INDUCTOR CHIP LEAD, JUMPER INDUCTOR	4.7UH 4.7UH 4.7UH (5.0MM) 4.7UH 4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH 10MMH	Q532 Q533 Q535 Q571 Q574 Q575 Q576 Q601 JR023 JR124 JR125	8-729-049-08 8-729-119-80 8-729-105-08 8-729-422-33 1-801-806-11 8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR SHORT SHORT SHORT	BU2515DX 2SC2688- 2SA1330- 2SD601A- DTC144EK 2PD601AR 2SA1037A	-127 LK 06 Q-TX A	9
L407 1 L408 1 L427 1 L434 1 L435 1 L447 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L533 1	1-412-002-31 1-412-002-31 1-535-143-61 1-414-181-11 1-414-181-11 1-410-993-42 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR CHIP INDUCTOR CHIP LEAD, JUMPER INDUCTOR	4.7UH 4.7UH (5.0MM) 4.7UH 4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH	Q533 Q535 Q571 Q574 Q575 Q576 Q601 JR023 JR124 JR125	8-729-119-80 8-729-105-08 8-729-422-33 1-801-806-11 8-729-031-00 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR OR > SHORT SHORT SHORT	2SC2688- 2SA1330- 2SD601A- DTC144EK 2PD601AR 2SA1037A	06 Q-TX A	
L408 1 L427 1 L434 1 L435 1 L447 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L535 1	1-412-002-31 1-535-143-61 1-414-181-11 1-414-181-11 1-410-993-42 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR CHIP LEAD, JUMPER INDUCTOR	4.7UH (5.0MM) 4.7UH 4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH	Q571 Q574 Q575 Q576 Q601 JR023 JR124 JR125	8-729-105-08 8-729-422-33 1-801-806-11 8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR OR > SHORT SHORT SHORT	2SA1330- 2SD601A- DTC144EK 2PD601AR 2SA1037A	06 Q-TX A 1-115	
L427 1 L434 1 L435 1 L447 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L535 1	1-535-143-61 1-414-181-11 1-414-181-11 1-410-993-42 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	LEAD, JUMPER INDUCTOR INDUCTOR CHIP INDUCTOR INDUCTOR INDUCTOR INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	(5.0MM) 4.7UH 4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH 10MMH 10MMH	Q574 Q575 Q576 Q601 JR023 JR124 JR125	8-729-422-33 1-801-806-11 8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR OR > SHORT SHORT SHORT	2SD601A- DTC144EK 2PD601AR 2SA1037A 0 0	Q-TX A -115	
L434 1 L435 1 L447 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L533 1 L535 1	1-414-181-11 1-414-181-11 1-410-993-42 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR CHIP INDUCTOR INDUCTOR INDUCTOR INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	4.7UH 4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH	Q575 Q576 Q601 JR023 JR124 JR125	1-801-806-11 8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR TRANSISTOR OR > SHORT SHORT SHORT	DTC144EK 2PD601AR 2SA1037A 0 0 0	A -115	
L435 1 L447 1 L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L535 1 L571 1	1-414-181-11 1-410-993-42 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	4.7UH 1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH 10MMH 10MMH	Q576 Q601 JR023 JR124 JR125	8-729-031-00 8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR TRANSISTOR OR > SHORT SHORT SHORT	2PD601AR 2SA1037A 0 0 0	-115	
L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L533 1 L535 1	1-410-993-42 1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR CHIP INDUCTOR INDUCTOR INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	1UH 47UH 22UH 4.7UH (5.0MM) 3.3MMH 10MMH	Q601 JR023 JR124 JR125	8-729-026-50 < RESIST 1-216-296-91 1-216-295-91 1-216-295-91	TRANSISTOR OR > SHORT SHORT SHORT	0 0 0		
L501 1 L502 1 L503 1 L504 1 L532 1 L533 1 L535 1 L535 1	1-414-187-11 1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	47UH 22UH 4.7UH (5.0MM) 3.3MMH 10MMH	JR023 JR124 JR125	< RESIST 1-216-296-91 1-216-295-91 1-216-295-91	OR > SHORT SHORT SHORT	0 0 0	K	
L502 1 L503 1 L504 1 L532 1 L533 1 L533 1 L535 1	1-412-529-11 1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	22UH 4.7UH (5.0MM) 3.3MMH 10MMH 10MMH	JR124 JR125	1-216-296-91 1-216-295-91 1-216-295-91	SHORT SHORT SHORT	0		
L503 1 L504 1 L532 1 L533 1 L535 1	1-412-521-31 1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR	4.7UH (5.0MM) 3.3MMH 10MMH 10MMH	JR124 JR125	1-216-295-91 1-216-295-91	SHORT SHORT	0		
L504 1 L532 1 L533 1 L535 1 L571 1	1-535-303-00 1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	LEAD, JUMPER INDUCTOR INDUCTOR INDUCTOR INDUCTOR	(5.0MM) 3.3MMH 10MMH 10MMH	JR124 JR125	1-216-295-91 1-216-295-91	SHORT SHORT	0		
L532 1 L533 1 L535 1 L571 1	1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	3.3MMH 10MMH 10MMH	JR125	1-216-295-91	SHORT	0		
L532 1 L533 1 L535 1 L571 1	1-412-553-11 1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	3.3MMH 10MMH 10MMH	JR125	1-216-295-91	SHORT	0		
L533 1 L535 1 L571 1	1-406-989-21 1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR INDUCTOR	10MMH 10MMH						
L535 1	1-459-111-00 1-412-533-21 1-408-603-21	INDUCTOR INDUCTOR	10MMH						
L571 1	1-412-533-21 1-408-603-21	INDUCTOR					•		
	1-408-603-21		47UH	R001	1-216-025-91		100	5%	1/10W
L602 :		INDUCTOR		R002	1-216-025-91	RES,CHIP	100	5%	1/10W
	< PHOTO (10UH	R003	1-216-065-91			5%	1/10W
	< PHOTO (R004	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		COUPLER >		R005	1-216-214-00			5%	1/8W
PH601 △ 8	8-749-016-21	IC TCET1103G		R009	1-216-025-91	RES,CHIP	100	5%	1/10W
				R010	1-216-025-91	RES,CHIP	100	5%	1/10W
	< TRANSIS	STOR >		R011	1-216-025-91	RES, CHIP	100	5%	1/10W
				R012	1-247-807-31	CARBON	100	5%	1/4W
Q001 1	1-801-806-11	TRANSISTOR DTC	C144EKA	R013	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
Q010 8	8-729-120-28	TRANSISTOR 2SC	C1623-L5L6						
Q011 1	1-801-806-11	TRANSISTOR DTC	C144EKA	R014	1-216-295-91	SHORT	0		
-		TRANSISTOR 2SD		R015	1-216-045-00		680	5%	1/10W
		TRANSISTOR 2SC	~	R016	1-216-055-00		1.8K		1/10W
- · · · · · · · · · · · · · · · · · · ·	: == · -·			R017	1-249-429-11	•	10K		
Q016 8	8-729-026-50	TRANSISTOR 2SA	11037AK	R018	1-216-065-91				1/10W
-		TRANSISTOR 2SA					2.720	- 0	-/
-		TRANSISTOR 2SC		R019	1-216-295-91	SHORT	0		
		TRANSISTOR 2SC		R020	1-216-293-91			5%	1/10W
		TRANSISTOR 2SC		R020	1-216-049-91				1/10W 1/10W
2020	0-123-120-20	TUMMSTSTOK 79C	Y 1052-H3H0	R021 R022					
0021	0 700 000 50	MDANICIOMOD 003	1102777		1-216-049-91			5% ⊑∘	1/10W
		TRANSISTOR 2SA		R023	1-216-049-91	KES, CHIP	1K	5%	1/10W
		TRANSISTOR 2SC		2004	1 016 050 00	DEG 2"	1 ^	Fn	1 /1 ^**
-		TRANSISTOR 2SA		R024	1-216-073-00		10K		1/10W
-		TRANSISTOR DTC		R025	1-216-073-00		10K	5% - ∘	1/10W
Q112 8	8-729-026-50	TRANSISTOR 2SA	11037 A K	R026	1-216-073-00		10K	5%	1/10W
				R027	1-216-083-00		27K	5%	1/10W
		TRANSISTOR 2SC		R028	1-216-049-91	RES,CHIP	1K	5%	1/10W
Q202 8	8-729-422-33	TRANSISTOR 2SD	0601A-Q-TX						
Q203 8	8-729-920-75	TRANSISTOR 2SC	C2412K	R029	1-216-073-00	RES,CHIP	10K	5%	1/10W
Q204 8	8-729-920-75	TRANSISTOR 2SC	2412K	R030	1-216-073-00	RES, CHIP	10K	5%	1/10W
		TRANSISTOR 2SC		R031	1-216-073-00		10K	5%	1/10W
				R032	1-216-089-91		47K	5%	1/10W
Q329 8	8-729-026-50	TRANSISTOR 2SA	11037AK	R033	1-216-093-91		68K	5%	1/10W
-		TRANSISTOR 2SC			-	,		-	•
-		TRANSISTOR 2SA		R034	1-216-049-91	RES CHIP	1K	5%	1/10W



REF. NO.	PART.NO	DESCRIPTIO	N		REMARK	REF. NO.	PART.NO	DESCRIPTION			REMARK
R035	1-216-198-91	RES,CHIP	1K	5%	1/8W	R125	1-249-417-11	CARBON	1K	5%	1/4W
R036	1-216-049-91	RES, CHIP	1K	5%	1/10W	R126	1-216-081-00	RES, CHIP	22K	5%	1/10W
R037	1-216-081-00	RES,CHIP	22K	5%	1/10W	R130	1-216-085-00	RES,CHIP	33K	5%	1/10W
R038	1-216-222-00	RES,CHIP	10K	5%	1/8W	R134	1-216-075-00	RES, CHIP	12K	5%	1/10W
R039	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R144	1-216-222-00	RES,CHIP	10K	5%	1/8W
R040	1-216-025-91	RES,CHIP	100	5%	1/10W	R145	1-216-212-00	RES,CHIP	3.9K	5%	1/8W
R050	1-216-049-91	RES, CHIP	1K	5%	1/10W	R146	1-216-105-91	RES, CHIP	220K	5%	1/10W
R051	1-216-174-00	RES, CHIP	100	5%	1/8W	R151	1-216-049-91	RES, CHIP	1K	5%	1/10W
R052	1-216-295-91	•	0			R153	1-216-180-00		180	5%	1/8W
R053	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R154	1-216-238-91	RES, CHIP	47K	5%	1/8W
R054	1-216-097-91	RES,CHIP	100K	5%	1/10W	R155	1-216-079-00	RES,CHIP	18K	5%	1/10W
R060	1-216-025-91		100	5%	1/10W	R202	1-216-113-00		470K	5%	1/10W
R061	1-216-025-91		100	5%	1/10W	R203	1-216-081-00		22K	5%	1/10W
R062	1-216-182-00		220	5%	1/8W	R204	1-247-863-91		22K	5%	1/4W
R063	1-216-089-91	RES, CHIP	47K	5%	1/10W	R206	1-216-085-00	RES,CHIP	33K	5%	1/10W
R064	1-216-089-91	RES,CHIP	47K	5%	1/10W	R208	1-216-055-00	RES, CHIP	1.8K	5%	1/10W
R065	1-216-025-91		100	5%	1/10W	R209	1-216-049-91		1K	5%	1/10W
R066	1-216-057-00		2.2K		1/10W	R211	1-215-873-00		4.7K		1W F
R067	1-216-065-91		4.7K		1/10W	R213	1-216-093-91		68K	5%	1/10W
R069	1-216-041-00		470	5%	1/10W	R214	1-216-061-91		3.3K		1/10W
R071	1-216-200-11	RES.CHIP	1.2K	5%	1/8W	R215	1-216-061-91	RES.CHTP	3.3K	5%	1/10W
R075	1-216-214-00		4.7K		1/8W	R301	1-216-025-91		100	5%	1/10W
R077	1-216-082-00		24K	5 %	1/10W	R302	1-216-081-00		22K	5%	1/10W
R082	1-216-013-91		33	5 %	1/10W	R303	1-216-073-00		10K	5%	1/10W
R083	1-216-176-91		120	5%	1/8W	R304	1-216-065-91		4.7K		1/10W
R084	1-216-162-91	RES, CHIP	33	5%	1/8W	R305	1-412-002-31	INDUCTOR CHIP	4.7UH	I	
R085	1-216-176-91	'	120	5%	1/8W	R306	1-216-057-00		2.2K		1/10W
R086	1-216-162-91		33	5%	1/8W	R307	1-216-041-00		470	5%	1/10W
R087	1-216-027-91		120	5%	1/10W	R308	1-216-049-91		1K	5%	1/10W
R088	1-216-214-91		4.7K		1/8W	R309	1-216-675-11				1/10W
R089	1-216-081-00	RES.CHIP	22K	5%	1/10W	R310	1-216-022-00	RES.CHIP	75	5%	1/10W
R090	1-216-206-00		2.2K		1/8W	R312	1-216-061-00		3.3K		1/10W
R091	1-216-081-00			5%	1/10W	R313	1-216-025-91		100	5%	1/10W
R092	1-216-073-00	'		5 %	1/10W	R314	1-216-025-91		100	5%	1/10W
R094	1-216-025-91		100	5%	1/10W	R315	1-216-075-00		12K	5%	1/10W
R095	1-216-025-91	RES_CHIP	100	5%	1/10W	R316	1-216-025-91	RES.CHIP	100	5%	1/10W
R096	1-247-807-31		100	5% 5%	1/4W	R317	1-216-097-91		100K		1/10W
R097	1-247-807-31			5% 5%	1/4W	R318	1-412-002-41	•	4.7UH		-, - • • •
R098	1-216-097-91		100K		1/10W	R319	1-412-002-41		4.7UH		
R099	1-216-246-00		100K		1/8W	R320	1-412-002-41		4.7UH		
R101	1-216-049-91	מדט מעדה	1K	5%	1/10W	R321	1-216-025-91	DEC CUID	100	5%	1/10W
R101	1-216-049-91		1K 470	ეგ 5%	1/10W 1/10W	R321	1-216-025-91		820	วช 5%	1/10W 1/10W
R105	1-216-041-00		470 8.2K		1/10W 1/10W	R323	1-216-047-91		100	วช 5%	1/10W 1/10W
R105	1-215-900-11			ეგ 5%	1/10W 2W F	R323		INDUCTOR CHIP			I/ IUW
R120	1-215-900-11		22K 330	ეგ 5%	2W F 1/10W	R324 R325		INDUCTOR CHIP			
VTCA	1-210-031-00	NEO, CHIP	J30	Jo	1/ 1VII	NJ2J	1-417-007-31	INDUCTOR CUIP	3./UH		
R121	1-216-025-91		100	5%	1/10W	R326	1-216-113-00		470K	5%	1/10W
R122	1-216-025-91	RES, CHIP	100	5%	1/10W	R327	1-216-295-91	SHORT	0		



REF. NO.	PART.NO	DESCRIPTION	N		REMARK	REF. NO.	PART.NO	DESCRIPTION	l_		REI	MARK	_
R328	1-216-049-91	RES,CHIP	1K	5%	1/10W	R457	1-216-174-00	RES,CHIP	100	5%	1/8W		
R329	1-216-031-00	RES, CHIP	180	5%	1/10W	R459	1-247-807-31	CARBON	100	5%	1/4W		
R330	1-216-089-91	RES, CHIP	47K	5%	1/10W	R460	1-249-403-11	CARBON	68	5%	1/4W		
R331	1-216-206-91	RES, CHIP	2.2K	5%	1/8W	R461	1-216-033-00	RES,CHIP	220	5%	1/10W		
R332	1-216-206-00	RES,CHIP	2.2K	5%	1/8W	R501	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R333	1-216-206-00	RES,CHIP	2.2K	5%	1/8W	R502	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R334	1-216-025-91	RES, CHIP	100	5%	1/10W	R503	1-215-888-00	METAL OXIDE	220	5%	2W	F	
R335	1-216-025-91	RES, CHIP	100	5%	1/10W	R504	1-249-385-11	CARBON	2.2	5%	1/4W	F	
R336	1-216-077-00	RES,CHIP	15K	5%	1/10W	R505	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R338	1-216-049-91	RES,CHIP	1K	5%	1/10W	R506	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		
R339	1-216-081-00	RES,CHIP	22K	5%	1/10W	R507	1-216-349-00	METAL OXIDE	1	5%	1W	F	
R340	1-535-143-11	LEAD, JUMPER	(10.0M	M)		R508	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W		
R341	1-535-143-11	LEAD, JUMPER	(10.0M	M)		R509	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W		
R342	1-216-103-00	RES, CHIP	180K	5%	1/10W	R510	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R401	1-216-113-00	RES,CHIP	470K	5%	1/10W	R511	1-215-869-11	METAL OXIDE	1K	5%	1W	F	
R402	1-216-295-91	SHORT	0			R512	1-249-382-11	CARBON	1.2	5%	1/4W	F	
R403	1-216-041-00		470	5%	1/10W	R513	1-216-097-91		100K		1/10W		
R404	1-216-113-00	•	470K		1/10W	R514	1-249-377-11		0.47		1/4W	F	
R406	1-216-113-00	•	470K		1/10W	R515	1-249-377-11		0.47		1/4W		
R407	1-216-295-91	•	0		·	R516	1-249-493-11	CARBON	56K	5%	1/2W		
R408	1-216-022-00	RES CHIP	75	5%	1/10W	R517	1-247-855-91	CARBON	10K	5%	1/4W		
R409	1-216-174-00	•	100	5%	1/8W	R518	1-216-661-91			0.50%			
R410	1-216-174-00	•	100	5 %	1/8W	R520	1-215-884-11		47	5%	2W	F	
R411	1-216-022-00	•	75	5%	1/10W	R521	1-216-121-91		1M	5%	1/10W		
R412	1-216-174-00	•	100	5%	1/8W	R522	1-216-097-91	•	100K		1/10W		
R413	1-216-295-91	SHORT	0			R523	1-216-121-91	RES.CHIP	1M	5%	1/10W		
R414	1-216-022-00		75	5%	1/10W	R524	1-216-083-00		27K	5%	1/10W		
R415	1-216-022-00	•	75	5%	1/10W	R525	1-216-057-00		2.2K		1/10W		
R417	1-249-403-11	•	68	5%	1/4W	R526	1-216-089-91		47K	5%	1/10W		
R418	1-249-413-11		470	5%	1/4W	R527	1-216-077-00	•	15K		1/10W		
R419	1-216-022-00	RES.CHIP	75	5%	1/10W	R528	1-216-097-91	RES.CHIP	100K	5%	1/10W		
R420	1-216-041-00		470		1/10W	R529	1-216-073-00	•		5%	1/10W		
R421	1-216-113-00	•	470K		1/10W	R530	1-216-085-00	•	33K		1/10W		
R425	1-216-222-91	•	10K		1/8W	R531	1-216-057-00		2.2K		1/10W		
R427	1-216-113-00	•	470K		1/10W	R532	1-216-065-91		4.7K		1/10W		
R429	1-216-041-00	RES_CHIP	470	5%	1/10W	R533	1-216-073-00	RES_CHIP	10K	5%	1/10W		
R429	1-216-113-00		470K		1/10W	R534	1-216-075-00	•	220K		1/10W		
R431	1-216-022-00	•	75	5% 5%	1/10W	R535	1-216-101-00	•	150K		1/10W		
R432	1-216-113-00	•	470K		1/10W	R539	1-216-049-91	•	1K	5%	1/10W		
R435	1-216-022-00	•	75	5%	1/10W	R540	1-215-861-00	•	47	5%	1W	F	
R437	1_016,000,00	מדטט מעד	75	5%	1/10W	R541	1-216-097-91	ספר רעדה	1000	E C	1/10W		
R437 R439	1-216-022-00 1-216-041-00		75 470	ວ∜ 5%	1/10W 1/10W	R541 R542	1-216-097-91	•	100K	ეგ 5%	1/10W		
R439 R440	1-216-041-00	•	470 470K		1/10W 1/10W	R542 R543	1-216-089-91	•	47K 47K	ეგ 5%	1/10W		
R440 R442	1-216-113-00	•	470K	ວ∜ 5%	1/10W 1/10W	R545 R546	1-216-089-91	•	47K	ეგ 5%	1/10W 1/4W	P	
R442 R445	1-216-073-00	•	75	5%	1/8W	R546 R547		LEAD, JUMPER			1/4W	-	
N17J	1 210 1/1-00	AUD / CHIE	,,	J 10	±/ VII	104/	1 333 303-00	DERD, COMPER	(J. OPEN	1			
R450	1-216-041-00		470	5%	1/10W	R548	1-202-973-91	FUSIBLE	3.3	5%	1/4W		
R454	1-216-041-00	RES, CHIP	470	5%	1/10W	R549	1-216-363-00	METAL OXIDE	0.33	5%	2W	F	



The components identified by shading and marked ⚠ are critical for safety
Replace only with the part number specified.

REF. NO	. PART.NO	DESCRIPTIO	N	RE	MARK	REF	. NO.	PART.NO	DESCRIPTIO	N	R	EMARK
R551	1-215-873-00	METAL OXIDE	4.7K 5	% 1₩	F			< RELAY	>			
R552	1-216-061-00	RES, CHIP	3.3K 5	% 1/10₩	1							
R553	1-249-381-11	CARBON	1 5	% 1/4₩	F	RY6	501	△ 1-755-266-11	RELAY, AC PO	WER		
R555	1-216-208-91	RES, CHIP	2.7K 5	% 1/8₩								
R571	1-249-417-11		1K 5	% 1/4W	F			< SWITCH	>			
R572	1-216-369-00	METAL OXIDE	1 5	% 2₩	F	SW5	532	1-572-707-11	SWITCH, LEVE	R		
R573	1-216-097-91	RES, CHIP	100K 5	% 1/10₩	1							
R574	1-216-065-91	RES, CHIP	4.7K 5	% 1/10₩	1			< TRANSF	ORMER >			
R575	1-216-097-91	RES, CHIP	100K 5	% 1/10W	•							
R581	1-216-089-91	RES, CHIP	47K 5	% 1/10W	'	T51		1-453-308-11 1-437-195-11		•	•	4521//U2B4)
R582	1-216-089-91	DEC CUID	47K 5	% 1/10₩		T53		1-426-981-11				
R583	1-216-081-00		22K 5	=		T53		1-420-901-11		-		
R588	1-216-061-00		4.7K 5			T60		△ 1-427-962-11				
R589	1-216-097-91	•	100K 5			100) 1	71 1-427-902-11	TAMOT ONNER,	DINE LIDIES		
R590	1-216-230-00		22K 5			Т60	12	1-431-732-21	TDXNCT∩DMTD	CUMTED 1	'CDШ\	
K390	1-210-230-00	RES, CHIP	22N J	-5 1/OW		T60		△ 1-433-933-11				
R591	1_215_002_11	METAL OXIDE	1K 5	% 2₩		100)	<u>//</u> 1-455-955-11	TRANSFORMER,	CONVERTER ('SKI)	
R593	1-213-692-11		68K 5		1			< THERMI	CMUD >			
R593	1-249-439-11		2.2K 5		,			< Inermi	210K >			
R594 R595	1-216-037-00	•	0.47 5	•		mur	2601	△ 1-810-961-11	MINEDMICHOD	DOCTMINE		
R602	1-249-377-11 △ 1-202-961-11		1.8 5		1	THE	2001	₩ 1-910-301-11	THERMISTOR,	POSITIVE		
KOUZ	<u> </u>	CEMENIED	1.0 3	16 IUW				< VARIST	OR >			
R603	1-202-933-61	FUSIBLE	0.1 1	0% 1/2₩	F							
R604	1-249-421-11	CARBON	2.2K 5	% 1/4₩		VDR	R601 .	△ 4-374-846-01	VARISTOR			
R607	△ 1-202-961-11	CEMENTED	1.8 5	% 10W								
R608	1-216-488-11	METAL OXIDE	18K 5	% 3₩	F			< CRYSTA	T >			
R611	1-249-415-11	CARBON	680 5	% 1/4₩								
						X00)1	1-578-774-11	VIBRATOR, CR	YSTAL		
R616	1-216-393-00	METAL OXIDE	2.2 5	% 3₩	F	X30)2	1-567-505-11	OSCILLATOR,	CRYSTAL		
R617	1-249-405-11	CARBON	100 5	% 1/4W	F	X30)3	1-567-504-11	OSCILLATOR,	CRYSTAL		
R619	1-216-214-00	RES, CHIP	4.7K 5	% 1/8₩								
R620	1-216-055-00	RES, CHIP	1.8K 5	% 1/10₩		A	A Boa	ard Variant Pa	rts KV-29	FC20A/29F	-C20E	0/29FC20E
R622	1-249-401-11	CARBON	47 5	% 1/4W								
								< CAPACI	TOR >			
R627	1-249-384-91	CARBON	1.8 5	% 1/4W								
R628	1-247-791-91	CARBON	22 5	% 1/4W		C11	11	1-216-296-91	SHORT	0		
R632	△ 1-240-030-91	METAL	4.7M 5	% 1/2₩		C12	23	1-102-108-00	CERAMIC	150PF	10%	50V
R634	△ 1-240-030-91	METAL	4.7M 5	% 1/2₩		C12	24	1-104-644-11	ELECT	47MF	20%	25V
R651	△ 1-220-926-11	FUSIBLE	0.47 1	.0% 1/2W	F	C12	25	1-101-880-00	CERAMIC	47PF	5%	50V
						C13		1-102-525-11		68PF	5%	50V
R652	1-216-393-00	METAL OXIDE	2.2 5	% 3₩	F							
R653	1-216-393-00	METAL OXIDE	2.2 5	% 3₩	F			< FILTER	>			
R654	1-249-389-11	CARBON	4.7 5	% 1/4W	F							
R658	1-215-929-11	METAL OXIDE	100K 5	% 3₩	F	SWE	7101	1-767-874-11	FILTER, SURF	ACE WAVE		
R659	1-216-383-11	METAL OXIDE	0.33 5	% 3₩	F				,			
								< IC >				
R660	1-216-383-11	METAL OXIDE	0.33 5	% 3₩	F							
R661	1-247-843-11	CARBON	3.3K 5	% 1/4W		IC1	L01	8-759-466-49	IC TDA9817/V	I		
R662	1-215-929-11	METAL OXIDE	100K 5	% 3₩	F							
R665	1-215-902-11	METAL OXIDE	47K 5	% 2₩	F			< COIL >	•			
R666	1-535-143-71	LEAD, JUMPER	(7.5MM)									
R667	1-216-488-11	METAL OXIDE	18K 5	% 3W	F	L10)5	1-408-603-31	INDUCTOR	10UH		



EF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
	< TRANSI	STOR >				< COIL :	•		
108	8-729-120-28	TRANSISTOR 2SC162	R-T.5T.6		L108	1-410-985-42	INDUCTOR CHIP 0.	22IIH	
160		TRANSISTOR 2SD601			L109	1-410-789-11		17UH	
-00	0 725 422 55	1144010101 20001	. 2		L117		INDUCTOR CHIP 4.		
	< RESIST	OR >				1 112 002 11	1112001011 01111 1.	7011	
						< TRANS	STOR >		
R113	1-216-295-91	SHORT 0			2122	0 500 000 50			
114	1 016 005 01	OHODE O			Q102		TRANSISTOR 2SA103		
114	1-216-295-91				Q104		TRANSISTOR DTC144		
133	1-216-295-91		E 0.	1 /10대	Q107		TRANSISTOR 2SC377		
137	1-216-035-00	·		1/10W	Q109		TRANSISTOR DTC144		
138 139	1-216-097-91 1-216-093-91	·		1/10W	Q110	1-801-806-11	TRANSISTOR DTC144	LNA	
139	1-210-093-91	RES, CHIP OOK	36	1/10W		< RESIST	OR >		
L40	1-216-035-00	RES,CHIP 270	5%	1/10W					
141	1-216-043-91	RES,CHIP 560	5%	1/10W	JR130	1-216-296-91	SHORT 0		
143	1-249-406-11			1/4W					
159	1-247-843-11		5%	1/4W	R109	1-216-061-00	RES,CHIP 3.3	K 5%	1/10W
160	1-216-049-91	RES, CHIP 1K	5%	1/10W	R110	1-216-200-11	RES,CHIP 1.2	K 5%	1/8W
					R111	1-216-053-00	RES,CHIP 1.5	K 5%	1/10W
161	1-216-021-00	RES,CHIP 68	5%	1/10W	R112	1-216-053-00	RES,CHIP 1.5	K 5%	1/10W
					R113	1-216-027-00	RES,CHIP 120	5%	1/10W
	< TUNER	>			R114	1-216-041-91	RES,CHIP 470	5%	1/10W
J101	8-508-432-10	TUNER (BTP-AC411)			R123	1-216-037-00			1/10W
J101	0-390-432-10	TONER (BIF-AC411)			R127	1-216-031-00			1/10W
A Poo	rd Variant Ba	rts KV-29FC20	D		R127	1-216-051-00		5° K 5%	1/10W 1/10W
А БОА	iu valialit ra	rts KV-29FC20	ь		R129	1-216-063-91		K 5%	1/10W
	< CAPACI	TOR >					,		·
					R137	1-216-057-00	RES,CHIP 2.2	K 5%	1/10W
100	1-163-038-91	CERAMIC CHIP 0.1M	?	25V	R138	1-216-689-11	RES,CHIP 39K	5%	1/10W
111	1-163-059-00	CERAMIC CHIP 0.01	1F	50V	R139	1-216-075-00	RES, CHIP 12K	5%	1/10W
121		CERAMIC CHIP 0.01		50V	R140	1-216-073-00	RES, CHIP 10K	5%	1/10W
133	1-162-638-11	CERAMIC CHIP 1MF		16V	R141	1-216-295-91	SHORT 0		
140	1-104-664-11		2	0% 16V					
					R142	1-216-043-91	RES,CHIP 560	5%	1/10W
	< FILTER	>			R147	1-216-017-91	RES,CHIP 47	5%	1/10W
					R148	1-216-174-00		5%	1/8W
F105	1-760-154-11	TRAP, CERAMIC			R149	1-216-049-91	·	5%	1/10W
		•			R152	1-216-025-91	RES,CHIP 100	5%	1/10W
VF101		FILTER, SURFACE W			R156	1-216-065-91	DEC CUID 17	K 5%	1/10W
WF103	1-767-083-11	FILTER, SURFACE W	AVE		R157	1-216-065-91		κ 5%	1/10W 1/10W
		_			R157	1-216-065-91		ა ეგ 5%	1/10W 1/10W
	< DIODE	>			R150	1-249-419-11		5° K 5%	1/10W 1/4W
								Λ ೨ಕ	1/4W
102		DIODE BA592-GEG			R160	1-216-295-91	SHORT 0		
1 / 1	8-719-914-43	DIODE DAN202K			D1.C1	1 017 005 01	OHODE C		
104					R161	1-216-295-91	SHORT 0		
.04					İ				
104	< IC >					,	TE DEGTORAD .		
						< VARIA	BLE RESISTOR >		
10 4 C101		IC TDA9818/V1			RV101		RES, ADJ, CARBON	2011	



REF. NO.

D719

D721

D722

8-719-991-33 DIODE 1SS133T-77

8-719-991-33 DIODE 1SS133T-77

8-719-991-33 DIODE 1SS133T-77

The components identified by shading and marked Δ are critical for safety Replace only with the part number

REMARK

Replace only with the part number specified.

< TUNER >

DESCRIPTION

PART.NO

TU101	1-693-418-11	TUNER (TELE	9-001A)			
*A-16	38-127-A C	Board, Co	omplete			
	< CAPACI	TOR >				
C702	1-102-109-00	CERAMIC	180PF	10%	50V	
C703	1-102-110-91	CERAMIC	220PF	10%	50V	
C704	1-101-004-00	CERAMIC	0.01MF		50V	
C705	1-101-004-00	CERAMIC	0.01MF		50V	
C706	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C707	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C708	1-162-114-00	CERAMIC	0.0047MF		2KV	
C709	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C710	1-136-189-00	FILM	0.1MF	10%	250V	
C712	1-102-109-00	CERAMIC	180PF	10%	50V	
C713	1-101-004-00	CERAMIC	0.01MF		50V	
C714	1-104-665-11	ELECT	100MF	20%	16V	
C717	1-102-114-00	CERAMIC	470PF	10%	50V	
C718	1-102-114-00	CERAMIC	470PF	10%	50V	
C719	1-102-114-00	CERAMIC	470PF	10%	50V	
	< CONNEC	TOR >				
CN701	1-784-633-11		TOR 4P			
CN702	1-695-915-11					
CN703	*1-564-509-11	PLUG, CONNE	CTOR 6P			
	< DIODE	>				
D702	8-719-991-33	DIODE 1SS13	3T-77			
D703	8-719-991-33	DIODE 1SS13	3T-77			
D704	8-719-991-33	DIODE 1SS13	3T-77			
D705	8-719-991-33	DIODE 1SS13	3T-77			
D706	8-719-991-33	DIODE 1SS13	3T-77			
D707	8-719-991-33	DIODE 1SS13	3T-77			
D708	8-719-991-33	DIODE 1SS13	3T-77			
D709	8-719-991-33	DIODE 1SS13	3T-77			
D710	8-719-991-33					
D711	8-719-991-33	DIODE 1SS13	3T-77			
D712	8-719-991-33	DIODE 1SS13	3T-77			
D714	8-719-991-33	DIODE 1SS13	3T-77			
D715	8-719-991-33	DIODE 1SS13	3T-77			
D716	8-719-991-33					
D717	8-719-991-33	DIODE 1SS13	3T-77			
D718	8-719-991-33	DIODE 1SS13	3T-77			
D710	0 710 001 00	DTODE 10010	Om 77			

< CRT SOCKET >

DESCRIPTION

J701 ⚠ 1-251-732-11 SOCKET, CRT

PART.NO

REF. NO.

REMARK

	< COIL >					
L704	1-414-183-41	INDUCTOR	10UH			
	< TRANSI	STOR >				
Q701	8-729-046-28	TRANSISTOR BF	420-12	6		
Q702	8-729-119-78	TRANSISTOR 2S	C2785-	HFE		
Q703	8-729-046-28	TRANSISTOR BF	420-12	6		
Q704	8-729-200-17	TRANSISTOR 2S	A1091-	0		
Q705	8-729-119-78	TRANSISTOR 2S	C2785-	HFE		
Q706	8-729-046-28	TRANSISTOR BF	420-12	6		
Q707	8-729-200-17	TRANSISTOR 2S.				
Q708	8-729-119-78	TRANSISTOR 2S	C2785-	HFE		
Q709		TRANSISTOR BF		-		
Q710	8-729-200-17	TRANSISTOR 2S	A1091-	0		
Q711	8-729-119-78		C2785-	HFE		
Q712	8-729-046-28					
Q713	8-729-046-28			-		
-	8-729-026-39			-		
Q715	8-729-200-17	TRANSISTOR 2S.	A1091-	0		
Q716		TRANSISTOR 2S				
Q717	8-729-200-17	TRANSISTOR 2S.	A1091-	0		
	< RESIST	OR >				
R701	1-247-895-91	CARBON	470K	5%	1/4W	
R702	1-216-464-11	METAL OXIDE	18K	5%	2W	F
R703	1-249-405-11	CARBON	100	5%	1/4W	F
R704		LEAD, JUMPER	(12.5M	M)		
R705	1-249-931-11	CARBON	2.2K	5%	1/4W	F
R706	1-247-815-91		220	5%	•	
	1-247-819-91		330	5%		
R708	1-249-401-11			5%		
R709	1-202-844-00			10%		
R710	1-247-895-91	CARBON	470K	5%	1/4W	
R712	1-249-931-11			5%	1/4W	F
R713	1-247-895-91			5%		
R714		METAL OXIDE	18K	5%	2W	
R715	1-249-405-11			5%	1/4W	F
R716	1-247-815-91	CARBON	220	5%	1/4W	
R717	1-249-412-11		390	5%	1/4W	
R718	1-202-814-11		33K	10%		
R719	1-249-401-11		47	5 %		_
R721	1-249-405-11		100		1/4W	F.
R722	1-202-848-00	POPID	680K	10%	1/2W	



REF. NO.	PART.NO	DESCRIPTIO	N		REMAR	K	REF. NO.	PART.NO	DESCRIPTIO	N	R	EMARK	
R724	1-260-131-11	CARBON	470K	5% 1	/2W		C1906	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	
R725	1-249-425-11	CARBON	4.7K	5% 1	/4W		C1911	1-109-954-11	ELECT	0.47MF	20%	160V	
R726	1-249-931-11		2.2K		/4W F		C1912	1-102-030-00	CERAMIC	330PF	10%	500V	
R727	1-247-815-91	CARBON	220	5% 1	/4W		C1913	1-129-992-00	FILM	0.0024MF	5%	630V	
R729	1-249-412-11	CARBON	390	5% 1	/4W		C1914	1-102-244-00	CERAMIC	220PF	10%	500V	
R730	1-249-401-11	CARBON	47	5% 1	/4W		C1915	1-136-205-11	FILM	0.022MF	10%	250V	
R733	1-249-437-11	CARBON	47K	5% 1	/4W		C1916	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
R734	1-247-807-31	CARBON	100	5% 1	/4W		C1917	1-102-228-00	CERAMIC	470PF	10%	500V	
R736	1-216-464-11	METAL OXIDE	18K	5% 2	W F		C1951	1-126-964-11	ELECT	10MF	20%	50V	
R741	1-202-549-00	SOLID	100	20% 1	/2W		C1952	1-126-964-11	ELECT	10MF	20%	50V	
R746	1-249-417-11	CARBON	1K	5% 1	/4W		C1953	1-136-159-00	FILM	0.033MF	5%	50V	
R750	1-249-417-11	CARBON	1K	5% 1	/4W		C1954	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	
R751	1-249-417-11	CARBON	1K	5% 1	/4W		C1957	1-126-964-11	ELECT	10MF	20%	50V	
							C1958	1-136-169-00	FILM	0.22MF	5%	50V	
	< VARIAB	LE RESISTOR >					C1959	1-136-169-00	FILM	0.22MF	5%	50V	
RV701 RV702	1-230-641-11 1-241-656-21							< CONNEC	CTOR >				
							CN1702	*1-564-507-11	PLUG, CONNEC	TOR 4P			
*A-167	4-140-A V	M Board, C	omple	te			CN1705	*1-564-511-11	PLUG, CONNEC	TOR 8P			
							CN1718	*1-770-723-11	CONNECTOR, B	OARD TO BOA	ARD 8P		
	1-900-903-72	LEAD ASSY, FO	OCUS				CN1801	*1-564-506-11	PLUG, CONNEC	TOR 3P			
		,					CN1802	4-352-844-01	PIN, LEAD CO.	ATING			
	< CAPACI	TOR >						< DIODE	>				
C1701	1-104-665-11	ELECT	100MF	20	% 16V	1							
C1704		CERAMIC CHIP		10	% 50V		D1703		DIODE 1SS133				
C1705	1-163-131-00	CERAMIC CHIP	390PF	5%			D1704		LEAD, JUMPER				
C1706		CERAMIC CHIP		5%			D1705		LEAD, JUMPER				
C1707	1-126-964-11	ELECT	10MF	20	% 50V		D1706 D1707		DIODE 1SS133 DIODE 1SS133				
C1708	1-163-021-91	CERAMIC CHIP	0.01MF	10	% 50V	,							
C1709	1-126-964-11		10MF	20			D1708	8-719-055-76	DIODE 1N4148				
C1710	1-107-927-11		3.3MF	20			D1709	8-719-055-76	DIODE 1N4148				
C1711	1-107-927-11		3.3MF	20			D1710	8-719-982-03	DIODE MTZJ-3	. 6A			
C1712	1-136-153-00		0.01MF	5%			D1711	8-719-982-03	DIODE MTZJ-3	. 6A			
							D1801	8-719-110-17	DIODE RD10ES	B2			
C1713	1-104-664-11		47MF	20			מחפות	0_710_110 17	DIODE RD10ES	20			
C1715	1-136-165-00		0.1MF	5%			D1802 D1803		DIODE RDIOES				
C1716	1-107-932-11		47MF	20			D1803	8-719-110-17		D4			
C1717	1-104-664-11		47MF	20			D1840 D1901		DIODE ELIZ	T-77			
C1803	1-163-037-11	CERAMIC CHIP	0.022ME	· 10	% 50V		D1901 D1902		DIODE 188133 DIODE 188133				
C1804	1-126-964-11	ELECT	10MF	20	% 50V	•							
C1805	1-137-366-11	FILM	0.00221	∕F 5%	507	1	D1903		DIODE 1SS133				
C1844	1-129-716-00	FILM	0.015M	₹ 5 %	630	V	D1904		DIODE 1SS133				
C1845	1-129-725-00	FILM	0.082M	₹ 5%	400	V	D1905		DIODE RD15ES				
C1848	1-136-347-11	FILM	0.00471	ИF 5%	630	V	D1906 D1907		DIODE ERA38- DIODE ERA38-				
C1901	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	,							
C1902	1-137-374-11	FILM	0.047M	F 5%	507	1	D1908		DIODE RU-3AM				
C1903	1-126-964-11	ELECT	10MF	20			D1909	8-719-991-33	DIODE 1SS133	T-77			
C1904	1-137-366-11	FILM	0.00221										
C1905	1-137-374-11	FILM	0.047M		507	•							
							İ						



REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	N		REMARK	
	< FERRIT	E BEAD >			R1709	1-216-025-91	RES,CHIP	100	5%	1/10W	
					R1710	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
FB1701	1-535-143-61	LEAD, JUMPER (5.	OMM)		R1711	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
			•		R1712	1-216-041-00		470	5%	1/10W	
	< IC >				R1713	1-216-065-91		4.7K	5%	1/10W	
IC1801	8-759-603-37	IC M5216P			R1714	1-216-019-00	RES,CHIP	56	5%	1/10W	
IC1901	8-759-450-95				R1715	1-216-025-91		100	5%	1/10W	
IC1902	8-759-008-70				R1716	1-216-031-00	•	180	5%	1/10W	
					R1717	1-216-051-00	•	1.2K		1/10W	
	< COIL >				R1718	1-260-091-11		220	5%	1/2W	
L1701	1-414-183-41	INDUCTOR 1	0UH		R1719	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
L1702	1-414-183-41	INDUCTOR 1	OUH		R1720	1-216-246-00	RES,CHIP	100K	5%	1/8W	
L1704	1-414-185-41		2UH		R1721	1-216-061-00	•	3.3K		1/10W	
L1843	1-406-989-21		OMMH		R1722	1-216-049-91		1K	5%	1/10W	
L1901	1-406-677-11		0MMH		R1723	1-216-081-00		22K	5%	1/10W	
L1959	1-406-679-11	INDUCTOR 2	2MMH		R1724	1-216-081-00	RES,CHIP	22K	5%	1/10W	
					R1725	1-216-049-91	RES,CHIP	1K	5%	1/10W	
	< TRANSI	STOR >			R1726	1-247-863-91		22K	5%	1/4W	
		-			R1727	1-216-025-91		100	5% 5%	1/10W	
Q1701	8-729-120-28	TRANSISTOR 2SC16	23-L5L6		R1728	1-216-025-91	•	100	5% 5%	1/10W	
Q1702		TRANSISTOR 2SC16					, •			-, - ***	
Q1702 Q1703		TRANSISTOR 2SC16			R1729	1-249-389-11	CARBON	4.7	5%	1/4W	
Q1703 Q1704		TRANSISTOR 2SC16			R1730	1-249-389-11		4.7	5% 5%	1/4W	
Q1704 Q1705		TRANSISTOR 2SC16			R1731	1-249-369-11			ა 5%	1/4W 2W F	
X - 100	0 129 120-20	INDIDION ZOCIO	חורה רי		R1731	1-215-893-11		3.3k 470	ა 5%	2W F	
Q1706	8-720-110-70	TRANSISTOR 2SC27	25_UFF		R1805	1-215-667-00		10K	ა 5%	1W F 1/10W	
Q1700 Q1707		TRANSISTOR 2SC27			1,1003	1 210-073-00	NEO / CHIF	TOIL	J 0	1/ 1011	
Q1707 Q1708		TRANSISTOR 2SC27			R1806	1-216-117-00	מדט פעם	680K	5%	1/10W	
Q1708 Q1709		TRANSISTOR 2SA93			R1807	1-216-117-00	•	10K	ეგ 5%	1/10W 1/10W	
		TRANSISTOR BC327 TRANSISTOR BC337			R1807 R1808						
Q1710	0-129-049-10	TRANSISTUR BUSS/	-23			1-216-073-00		10K	5% ⊑∘	1/10W	
01711	0 700 040 00	MDANGTOMOD DD000			R1809	1-216-073-00	•	10K	5% = 0.	1/10W	
Q1711		TRANSISTOR BD830			R1810	1-216-073-00	KES, CHIP	10K	5%	1/10W	
Q1712		TRANSISTOR BD829			21010	1 044 000 00	DEG	100	F ^	1 /1 ^	
Q1840		TRANSISTOR 2SA11			R1842	1-216-025-91	•	100	5% •••	1/10W	
Q1841		TRANSISTOR IRF62			R1846	1-216-057-00		2.2K		1/10W	
Q1901	8-729-120-28	TRANSISTOR 2SC16	23-L5L6		R1847	1-215-911-11		100	5 %	3W F	
					R1848	1-216-475-11		120	5%	3W F	
Q1902		TRANSISTOR 2SC16			R1901	1-216-089-91	RES,CHIP	47K	5%	1/10W	
Q1903		TRANSISTOR 2SC38									
Q1906		TRANSISTOR 2SC16			R1903	1-216-073-00		10K	5%	1/10W	
Q1907	8-729-140-97	TRANSISTOR 2SB73	4-34		R1904	1-216-073-00		10K	5%	1/10W	
					R1905	1-216-097-91		100K	5%	1/10W	
	< RESIST	OR >			R1906	1-216-073-00	RES, CHIP	10K	5%	1/10W	
R1701	1-216-041-00	RES,CHIP 47	0 5%	1/10W	R1907	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1701	1-216-041-00			1/10W 1/10W	R1908	1_016 000 00	מדות מודה	220	5%	1/10W	
						1-216-033-00					
R1703	1-216-061-00		3K 5%	1/10W	R1909	1-215-489-00		680K	ΤQ	1/4W	
R1704	1-216-051-00		2K 5%	1/10W	R1910	1-216-295-91		0	F.0	1 /1 /**	
R1705	1-216-031-00	RES, CHIP 18	0 5%	1/10W	R1911	1-216-073-00		10K	5% - ^	1/10W	
R1706	1 016 004 00	DEG OUTD 12	A FA	1 /1 012	R1912	1-216-121-91	RES,CHIP	1M	5%	1/10W	
D 17/116	1-216-031-00			1/10W	24040	1 040 040 05	DEG	1	F ^	1 /1 ^	
	4 044 4		n E0.	1/10W	R1913	1-216-049-91	RES, CHIP	1K	5%	1/10W	
R1700 R1707 R1708	1-216-043-91 1-216-041-00			1/10W	R1914	1-216-057-00	•	2.2K		1/10W	



REF. NO.	PART.NO	DESCRIPTION	ON		RE	MARK	REF.	NO. PAR	T.NO	DESCRIPTION	١		REMARK	
R1915	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	I			< CONNEC	TOR >				
R1916	1-216-673-11													
R1917	1-216-693-11	METAL CHIP	56K	0.50%	1/10W	i	CN90	0 1-77	9-947-11	TERMINAL BLOC	K, S			
R1918	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F	CN90	6 *1-56	4-511-11	PLUG, CONNECT	OR 8P			
R1921	1-216-485-11	METAL OXIDE	5.6K	5%	3W	F	CN90	7 *1-56	4-510-51	PIN, CONNECTO	R 7P			
							CN90	8 *1-56	4-509-11	PLUG, CONNECT	OR 6P			
R1922	1-215-919-11	METAL OXIDE	2.2K	5%	3W	F								
R1923	1-216-097-91	RES,CHIP	100K	5%	1/10W	I			< DIODE	>				
R1924	1-216-097-91				1/10W	I								
R1925	1-216-097-91	RES, CHIP	100K	5%	1/10W	i	D901	8-71	9-030-11	DIODE SLA-570	KT3F			
R1931	1-216-689-91	FILM	39K	0.50%	1/10W	1				HOLDER, LED				
							D902	8-71	9-929-15	DIODE HZS9.1N	IB2			
R1953	1-216-079-00	•	18K		1/10W		D903			DIODE HZS9.1N				
R1954	1-216-109-00	•	330K		1/10W		D904	8-71	9-109-97	DIODE RD6.8ES	B2			
R1955	1-216-105-91	•	220K		1/10W									
R1956	1-216-119-00	•	820K	5%	1/10W		D905			DIODE RD6.8ES				
R1957	1-216-073-00	RES,CHIP	10K	5%	1/10W	i	D906			DIODE MTZJ-T-				
							D907			DIODE MTZJ-T-				
R1958	1-216-025-91	•	100		1/10W		D908	8-71	9-923-60	DIODE MTZJ-T-	77-9.1	A		
R1959	1-216-063-91	•			1/10W									
R1960	1-216-073-00	•	10K		1/10W				< IC >					
R1961	1-216-687-11			0.50%										
R1962	1-216-687-11	METAL CHIP	33K	0.50%	1/10W		IC90	0 8-74	2-014-11	HYB IC SBX198	31-51			
R1964	1-216-025-91	RES, CHIP	100	5%	1/10W	i			< JACK S	OCKET >				
R1965	1-216-041-00	RES,CHIP	470	5%	1/10W	Ī								
R1966	1-215-886-11	METAL OXIDE	100	5%	2W	F	Ј900	1-75	0-264-11	JACK				
R1967	1-215-922-21	FILM	6.8K	5%	3W									
R1968	1-215-886-11	METAL OXIDE	100	5%	2W	F			< COIL >	•				
R1969	1-215-923-00	METAL OXIDE	10K	5%	3W	F	L900	1-41	2-521-41	INDUCTOR	4.7UH			
							L901	1-41	2-521-41	INDUCTOR	4.7UH			
	< TRANSF	FORMER >					L902	1-40	8-603-31	INDUCTOR	10UH			
							L903	1-40	8-603-31	INDUCTOR	10UH			
T1901	1-424-584-11	TRANSFORMER,	DYNAMI	C FOCU	S				∠ DECTOR	IOD N				
*A-164	l6-184-A F	l Board, Co	mplet	е					< RESIST	OK >				
							R900	1-24	7-807-31	CARBON	100	5%	1/4W	
	< CAPACI	TOR >					R901	1-24	9-424-11	CARBON	3.9K	5%	1/4W	
							R902	1-24	7-863-91	CARBON	22K	5%	1/4W	
C900	1-102-074-00	CERAMIC	0.001N	Œ	10%	50V	R903	1-24	7-701-11	CARBON	120	5%	1/4W	
C901	1-102-074-00	CERAMIC	0.001M	ſF	10%	50V	R904	1-24	7-701-11	CARBON	120	5%	1/4W	
C902	1-137-372-11	FILM	0.0221		5%	50V								
C903	1-137-372-11	FILM	0.0221	ſF	5%	50V	R908		9-401-11		47	5%	1/4W	
C904	1-104-665-11	ELECT	100MF		20%	25V	R909		7-895-91		470K		1/4W	
							R910		7-895-91		470K		1/4W	
C905	1-126-964-11	ELECT	10MF		20%	50V	R911			·	(5.0MM	•		
C906	1-126-960-11	ELECT	1MF		20%	50V	R912	1-24	9-417-11	CARBON	1K	5%	1/4W	
C907	1-126-960-11	ELECT	1MF		20%	50V					_			
C908	1-137-366-91	FILM	0.0022	MF	5%	50V	R913		9-427-11		6.8K		1/4W	
C909	1-137-366-91	FILM	0.0022	MF	5%	50V	R914		9-429-11		10K	5%	1/4W	
							R915		7-701-11		120	5%	1/4W	
C911	1-102-074-00	CERAMIC	0.001M	ſF	10%	50V	R916		7-701-11		120	5% 	1/4W	
C912	1-102-074-00	CERAMIC	0.001N	ſF	10%	50V	R917	1-24	7-807-31	CARBON	100	5%	1/4W	
							R918	1-24	7-807-31	CARBON	100	5%	1/4W	



REF. NO.	PART.NO	DESCRIP	DESCRIPTION REMARK		REF. NO.	PART.NO	DESCRIPTIO	N	REMARK			
	< SWITCH	· >				R287	1-249-417-11	CARBON	1K	5%	1/4W	
						R288	1-216-353-00	METAL OXIDE	2.2	5%	1W	F
S900	1-692-979-21	SWITCH, TA	CTILE			R290	1-247-843-11	CARBON	3.3K	5%	1/4W	
S901	1-692-979-21	SWITCH, TA	CTILE			R292	1-247-843-11	CARBON	3.3K	5%	1/4W	
S902	1-692-979-21	SWITCH, TA	CTILE			R293	1-247-863-91	CARBON	22K	5%	1/4W	
*A-16	49-023-A K	(Board, C	omplete			R294	1-249-416-11	CARBON	820	5%	1/4W	
	7-682-148-01	SCREW +P 3	X8			*A-165	54-041-A S	1 Board, Co (KV-2			DEC 20	D)
	< CAPACI	TOR >				*A-1654-039-A S1 Board, Complete (KV-29FC20B						<i>.</i> ,
2001	1 100 005 01		00.00	000	F 0	*A-165	54-040-A S	1 Board, Co				
C201	1-126-965-91		22MF	20%	50V			(KV-2	9FC20	E)		
C281 C282	1-126-960-11 1-126-943-11		1MF 2200MF	20% 20%	50V 25V							
C282	1-128-550-11		2200MF	20% 20%	50V	S1 Bo	ard Common	Parts				
C285	1-126-943-11		2200MF	20%	25V							
5203	1 120 945 11	11101	2200HF	200	231		< CAPACI	TOR >				
C286	1-136-493-81	FILM	0.047MF	5%	50V							
C287	1-137-194-81		0.47MF	5%	50V	C1103		CERAMIC CHIP			10%	50V
C288	1-136-165-00		0.1MF	5%	50V	C1106		CERAMIC CHIP			10%	50V
C289	1-104-666-11		220MF	20%	25V	C1107		CERAMIC CHIP			10%	50V
C290	1-136-161-00	FILM	0.047MF	5%	50V	C1108 C1109	1-163-021-91	CERAMIC CHIP	47MF		10% 20%	50V 25V
	< CONNEC	ער מריייי				CIIU	1-104-004-11	PTECI	4/111		200	234
	CONNEC	JUK /				C1110	1-126-960-11	ELECT	1MF		20%	50V
CN225	*1-564-508-11	PLUG, CONN	ECTOR 5P			C1111	1-126-960-11	ELECT	1MF		20%	50V
CN282	*1-564-506-51	,				C1113	1-104-664-11	ELECT	47MF		20%	25V
		,				C1115	1-104-664-11	ELECT	47MF		20%	25V
	< DIODE	>				C1116	1-163-021-91	CERAMIC CHIP	0.01MF		10%	50V
D201	8-719-911-19	DIODE 1001	10_25			C1117	1-163-021-91	CERAMIC CHIP	0.01MF		10%	50V
D201	0-719-911-19	DIODE 1991	19-23			C1118		CERAMIC CHIP				25V
	< IC >					C1119	1-126-960-11		1MF		20%	50V
	(10)					C1120	1-164-005-11	CERAMIC CHIP	0.47MF			25V
IC281	8-759-988-94	IC TDA2050				C1122	1-104-664-11	ELECT	47MF		20%	25V
	< COIL >	•				C1123	1-163-038-91	CERAMIC CHIP	0.1MF			25V
						C1124	1-163-251-11	CERAMIC CHIP	100PF		5%	50V
L281	1-406-973-41	INDUCTOR	22UH			C1127	1-126-960-11		1MF		20%	50V
						C1128	1-126-960-11		1MF		20%	50V
	< TRANSI	STOR >				C1129	1-126-960-11	ELECT	1MF		20%	50V
Q204	8-729-119-78	TRANSISTOR	2SC2785-HFE			C1130	1-126-964-11	ELECT	10MF		20%	50V
~	. •					C1132	1-104-664-11	ELECT	47MF		20%	25V
	< RESIST	'OR >				C1133	1-163-038-91	CERAMIC CHIP	0.1MF			25V
						C1134	1-126-964-11	ELECT	10MF		20%	50V
R201	1-249-434-11	CARBON	27K 5%	1/4W	1	C1136	1-126-964-11	ELECT	10MF		20%	50V
R202	1-249-434-11	CARBON	27K 5%	1/4W	1							
R203	1-247-895-91	CARBON	470K 5%	1/4W	1	C1139	1-126-964-11		10MF		20%	50V
R204	1-249-431-11	CARBON	15K 5%	1/4W		C1143		CERAMIC CHIP			10%	50V
R205	1-249-431-11	CARBON	15K 5%	1/4W	1	C1144		CERAMIC CHIP			10%	50V
						C1145		CERAMIC CHIP				25V
R209	1-247-839-91		2.2K 5%	1/4W		C1146	1-164-005-11	CERAMIC CHIP	U.4/MF			25V
R284	1-247-863-91		22K 5%	1/4W		01147	1 164 005 11	OPDANTO OUTS	0 471#F			257
R285	1-247-863-91	CARBON	22K 5%	1/4W	1	C1147	1-164-005-11	CERAMIC CHIP	U.4/MF			25V

REF. NO.	PART.NO	DESCRIPTION	F	REMARK	REF. NO.	PART.NO	DESCRIPTION	l	REMARK		
C1148	1-164-005-11	CERAMIC CHIP 0.47MF	ı	25V	R1155	1-216-085-00	RES,CHIP	33K 5%	1/10W		
C1149	1-126-964-91	ELECT 10MF	20%	50V	R1156	1-216-085-00	RES, CHIP	33K 5%	1/10W		
C1150	1-126-964-11	ELECT 10MF	20%	50V	R1174	1-216-085-00	RES, CHIP	33K 5%	1/10W		
C1151	1-126-960-91	ELECT 1MF	20%	25V	R1175	1-216-085-00	RES, CHIP	33K 5%	1/10W		
C1152	1-163-038-91	CERAMIC CHIP 0.1MF		25V	R1176	1-216-085-00	RES, CHIP	33K 5%	1/10W		
	< CONNEC	TOR >			R1177	1-216-085-00	RES,CHIP	33K 5%	1/10W		
					R1178	1-216-073-00		10K 5%	1/10W		
CN1101	*1-766-954-11	CONNECTOR, BOARD TO	BOARD 20P				•		·		
	< DIODE	>				< CRYSTA	Λ Γ >				
D1101	0 710 000 00	DIODE WEET E 37 F /			X1101	1-767-813-21	VIBRATOR, CRY	STAL			
D1101		DIODE MTZJ-T-77-5.6			04.5						
D1102		DIODE MTZJ-T-77-5.6			S1 Boa	ard Variant P		005000			
D1105 D1106		DIODE MTZJ-T-77-9.1 DIODE MTZJ-T-77-9.1				K	V-29FC20A/2	29FC20D			
21100			-			< IC >					
	< FERRIT	E BEAD >			IC1101	8-759-574-74	TC MD300703				
FB1101	1-410-396-41	FERRITE 0.45	UH		101101	0-139-314-14	IC IDA90/UA				
FB1102	1-410-396-41	FERRITE 0.45	UH			< RESIST	OR >				
FB1104	1-410-396-41	FERRITE 0.45	UH								
FB1110	1-412-002-31	INDUCTOR CHIP 4.70	H		R1165	1-216-295-91	SHORT	0			
FB1111	1-412-002-31	INDUCTOR CHIP 4.70	H								
FB1112	1-412-002-31	INDUCTOR CHIP 4.70	H		S1 Boa	ard Variant P	arts KV-29I	FC20B			
	< IC >					< CAPACI	TOR >				
					C1131	1_16/_005_11	CERAMIC CHIP	0 47ME		25V	
IC1102	8-759-100-96	IC UPC4558G2			C1135		CERAMIC CHIP		5%	50V	
IC1103	8-759-394-57	IC PST593C-MMP-4P			C1137	1-104-664-11		47MF		25V	
					C1138		CERAMIC CHIP		5 %	50V	
	< COIL >	•									
L1114	1-410-671-31	INDUCTOR 47UH				< FILTER	! >				
L1115	1-408-599-31					4 400 00= 00					
L1116	1-408-599-31				CF1101	1-409-327-00	TRAP, CERAMIC	(6.5MHZ)			
	< RESIST	10 N				< FERRIT	E BEAD >				
	< RE5151	OK >			FB1113	1_412_002_21	INDUCTOR CHIP) / 7mu			
R1101	1-216-073-00	RES,CHIP 10K	5% 1/10	W	111113	1 414-004-31	INDUCTOR CHIP	7.701			
R1102	1-216-073-00	RES, CHIP 10K	5% 1/10	W		< IC >					
R1103	1-126-025-91	RES,CHIP 100	5% 1/10	W		110 /					
R1104	1-126-025-91	RES,CHIP 100	5% 1/10	W	IC1101	8-759-574-73	TC TDA9875A				
R1105	1-216-035-00	RES,CHIP 270	5% 1/10	W		J .JJ JIT IJ	10 10H7010H				
R1110	1-216-025-91	RES,CHIP 100	5% 1/10	W		< COIL >	•				
R1111	1-216-025-91		5% 1/10		T1112	1 400 600 21	TNIDIIOMOD	E 61111			
R1113	1-216-073-00	•			L1113 L1117	1-408-600-31		5.6UH			
R1121	1-216-065-91	•			P1111	1-410-671-31	INDUCTOR	47UH			
R1122	1-216-065-91	•				< TRANSI	STOR >				
R1123	1_216_210_00	DEC CHID & OF	5% 1/8W	i							
R1123	1-216-218-00 1-216-073-00				Q1112	8-729-120-28	TRANSISTOR 2S	C1623-L5L6			
R1124 R1125		•			Q1113	8-729-120-28	TRANSISTOR 2S	C1623-L5L6			
R1125	1-216-069-00 1-216-073-00	•			Q1114		TRANSISTOR 2S				
VTITO	1-210-0/3-00	NEO CHIF IUN	J ₀ 1/10	п	Q1115	8-729-120-28	TRANSISTOR 2S	C1623-L5L6			



The components identified by shading and marked Δ are critical Replace only with the part number

specified.

REF. NO.	PART.NO	DESCRIPTION		ION REMARK		REF. NO.	PART.NO	DESCRIPTION	REMARK
	< RESIST	OR >				MISCEI	LLANEOUS		
R1108	1-216-077-00	RES,CHIP	15K	5%	1/10W				
R1152	1-216-035-00	RES, CHIP	270	5%	1/10W	<u> </u>	1-416-654-11	COIL, DEMAGNETIC	
R1153	1-216-025-91	RES,CHIP	100	5%	1/10W		1-452-032-00	MAGNET, DISC; 10	MM
R1154	1-216-067-00	RES, CHIP	5.6K	5%	1/10W		1-452-094-00	MAGNET, ROTATABLE	E DISK; 15MM
R1160	1-216-081-00	RES,CHIP	22K	5%	1/10W		1-452-896-11	COIL, NA ROTATION	N, (RT200)
						<u> </u>	8-453-011-11	NECK ASSY, NA299	-M
R1161	1-216-041-00	RES, CHIP	470	5%	1/10W				
R1162	1-216-061-00	RES, CHIP	3.3K	5%	1/10W	<u>^</u>	1-453-308-11	TRANSFORMER ASSY	, FLYBACK (NX-4521//U2B4)
R1163	1-216-081-00	RES, CHIP	22K	5%	1/10W		1-529-417-11	SPEAKER 8CM	
R1164	1-216-073-00	RES, CHIP	10K	5%	1/10W		1-529-408-11	LOUD SPEAKER 4.2	x24CM
R1167	1-216-025-91	RES, CHIP	100	5%	1/10W	<u> </u>	1-251-528-21	CAP ASSY, HIGH-V	OLTAGE
						<u> </u>	1-571-433-21	SWITCH, PUSH (AC	POWER)
R1168	1-216-033-00	RES, CHIP	220	5%	1/10W				
R1169	1-216-049-91	RES, CHIP	1K	5%	1/10W	<u> </u>	1-765-286-11	CORD, POWER	
R1170	1-216-001-00	RES, CHIP	10	5%	1/10W		8-598-432-10	TUNER (BTP-AC411)	
R1171	1-216-045-00	RES,CHIP	680	5%	1/10W				(KV-29FC20A/29FC20D/29FC20E)
R1172	1-216-041-00	RES, CHIP	470	5%	1/10W		1-693-418-11	TUNER (TELE9-001)	A) (KV-29FC20B)
						<u> </u>	8-735-053-05	PICTURE TUBE (M6	8LNHO60X)
R1173	1-216-049-91	RES, CHIP	1K	5%	1/10W				
						<u> </u>	8-451-494-21	DEFLECTION YOKE	(Y29RSA-M2)
S1 Bo	ard Variant P	arts KV-2	9FC20	E					

< IC >

IC1101 8-759-574-73 IC TDA9875A

< RESISTOR >

R1164 1-216-073-00 RES,CHIP 10K 5% 1/10W

ACCESSORIES AND PACKAGING MATERIALS

*4-029-168-01 BAG, PROTECTION

*4-204-407-01 INDIVIDUAL CARTON

*4-204-405-01 CUSHION (UPPER) (ASSY)

*4-204-406-01 CUSHION (LOWER) (ASSY)

*4-204-866-41 MANUAL INSTRUCTION (KV-29FC20A)

(ITALIAN)

4-204-866-51 MANUAL INSTRUCTION (KV-29FC20B)

(FRENCH/ITALIAN/GERMAN/DUTCH)

4-204-866-11 MANUAL INSTRUCTION (KV-29FC20D)

(ENGLISH/GERMAN/GREEK/TURKISH)

4-204-866-71 MANUAL INSTRUCTION (KV-29FC20E)

(SPANISH)

4-204-866-81 MANUAL INSTRUCTION (KV-29FC20E)

(FINNISH/NORWEGIAN/HUNGARIAN/PORTUGUESE/

DANISH/SWEDISH)

REMOTE COMMANDER

1-418-476-11 REMOTE COMMANDER (RM-887)